



August 24, 2020

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501

MAILED
AUG 25 2020

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
FEBRUARY/JUNE 2020 METHANE MONITORING RESULTS**

*Closed
#389*

Dear Ms. Ferguson:

The February/June 2020 reports have been reviewed and the results are within regulatory limits.

If you have any questions, please contact me.

Sincerely,

Mike Eder
Hydrogeologist
Solid Waste Section
phone: 406-444-1434; fax: 406-444-1373
Email: mike.eder@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

MAILED
APR 2 2000

MAILED
4/2/2020 mm

March 31, 2020

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

Hill closed

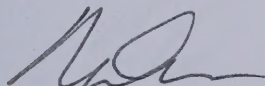
**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
OCTOBER 2019 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The October 2019 report has been reviewed and the results are within regulatory limits.

If you have any questions, please contact me.

Sincerely,



Mike Eder
Hydrogeologist
Solid Waste Section
phone: 406-444-1434; fax: 406-444-1373
Email: mike.eder@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

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MAILED
AS 12/19/19

December 19, 2019

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

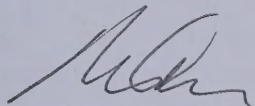
**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
JULY 2019 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The July 2019 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,



Mike Eder
Hydrogeologist
Solid Waste Section
phone: 406-444-1434; fax: 406-444-1373
Email: mike.eder@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

January 12, 2018

Mr. John Doe
123 Main Street
Anytown, CA 90210
Phone: 555-1234

Re: [Illegible subject line]

Dear Mr. Doe:

The first part of the report discusses the results of the initial inspection.

If you have any questions, please contact me.

Sincerely,



John Doe
123 Main Street
Anytown, CA 90210
Phone: 555-1234
Email: john.doe@example.com

cc: [Illegible distribution list]

MAILED
OCT 25 2019

October 23, 2019

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

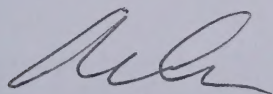
**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
MAY 2019 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The May 2019 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,



Mike Eder
Hydrogeologist
Solid Waste Section
phone: 406-444-1434; fax: 406-444-1373
Email: mike.eder@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

ROUTE & FILE SLIP

DATE: 10/17

SENDER: M. Eder

DATE NEEDED BY: 10/22

NAMETASKINITIALDATE

Sara

proof

SM

10/17

Rick

RI

10-21-19

INSTRUCTIONS

Damschen Sites (18)



May 6, 2019

MAILED

MAY 07 2019

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

Hill

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
MARCH 2019 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The March 2019 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602



October 29, 2018

MAILED
OCT 30 2018

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
SEPTEMBER 2018 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The September 2018 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "John Collins", is written over a horizontal line.

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

Correspondence Slip

Date Requested: 10-23-18

Originator: JK

Date Needed By: 10-25-18

Name Task

Shawn Marshall Proof

Initial/Date

SM 10/24
10-30-18

REVIEW ROUTING

Mail original via:
☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at:

Proof Path: G:\WUT_____

Special Instructions:

Mail copy of enclosures to CC's? Y ☒ N

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? ☒ Y ☐ N

Email copies sent? Y ☐ N

EMAIL copy sent to Project Originator? Y N



July 11, 2018

MAILED
JUL 13 2018

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
JUNE 2018 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The June 2018 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "John B. Collins", is written over a horizontal line.

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602



May 28, 2018

MAILED
MAY 29 2018

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
MARCH 2018 METHANE MONITORING RESULTS**

Hill

Dear Ms. Ferguson:

The March 2018 report has been reviewed. The monitoring could not be completed due to very deep snow. The next round of monitoring is scheduled for late May or early June 2018.

If you have any questions please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

Correspondence Slip

Date Requested: 5-23-18

Originator: IC

Date Needed By: 5-28-18

Name

Task

Initial/Date

SAWA

NEUSED

Proof

SA 5/24

RT

RT 5-24-18

REVIEW
ROUTING

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at:

Proof Path: G:\WUT

Mail copy of enclosures to CC's? Y ☒ N

Special Instructions:

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? ☒ Y ☐ N

Email copies sent? Y ☐ N

EMAIL copy sent to Project Originator? Y ☐ N



December 15, 2017

MAILED
DEC 15 2017

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
OCTOBER 2017 METHANE MONITORING RESULTS**

Hill

Dear Ms. Ferguson:

The October 2017 report has been reviewed. The results are within regulatory limits and consistent with previous monitoring events.

If you have any questions please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "John B. Collins".

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602

Correspondence Slip

Date Requested: 12/14/17

Originator: JTC

Date Needed By: 12/15/17

Name

Task

Initial/Date

SARA NELSON

Proof

SN, 12/14

ROUTING REVIEW

MB

MB, 12-14

RT

RL 12-15-17

Mail original via:

☒ Regular

☐ Certified

☐ Registered

☐ FedEx

Fax to addressee at

Proof Path: G:\WUTV

Mail copy of enclosures to CC's? Y ☒ N

Special Instructions:

Just trying to get this on it before Rick and Mary are out next week. JTC

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? Y ☒ N

Email copies sent? Y N

EMAIL copy sent to Project Originator? Y N



December 6, 2017

MAILED
DEC 06 2017

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

4111

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
AUGUST 2017 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The August 2017 report has been reviewed. The results are within regulatory limits and consistent with previous monitoring events.

If you have any questions please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602



✓
MAILED
8/25/17
mfm

August 24, 2017

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
JUNE 2017 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The June 2017 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program's files.

If you have any questions regarding this review, please do not hesitate to contact me directly.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
phone: 406-444-2802; fax: 406-444-1374
Email: jcollins3@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602



May 4, 2017

MAILED
5-8-17 SN

Ms. Amy Ferguson
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

**RE: CLOSED UNIFIED DISPOSAL DISTRICT LANDFILL— LICENSE #389
FEBRUARY 2017 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The February 2017 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program files.

If you have any questions or comments please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "John B. Collins".

John Collins
Hydrogeologist
Solid Waste Section
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

Correspondence Slip		Date Requested:	4-2-17
Originator:		Date Needed By:	4-4-17
Name		Task	Initial/Date
Admin		Proof	4/2/5/3
M&H			4/2/5/3
RT			4/2/5/3-2017
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REVIEW			
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Special Instructions:		Mail copy of enclosures to CC's? Y ☒ N Copies of enclosures for file needed? Y ☒ N Copy of letter for file needed? ☒ Y ☐ N Email copies sent? Y N	
EMAIL copy sent to Project Originator? Y N			



MAILED
2-6-17 SN

February 4, 2017

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

Hill

RE: **CLOSED UNIFIED DISPOSAL DISTRICT LANDFILL- LICENSE #389**
NOVEMBER 2016 METHANE MONITORING RESULTS

Dear Mr. Vincent:

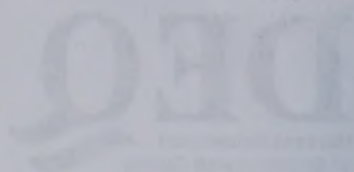
The November 2016 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program files.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602



MAILED

2-15-24

February 4, 2015

Mr. Chip Young
United Hospital District
315 South State Street
Utah, UT 84001-1021

Handwritten mark

RE: CLOSED LIMITED DISPOSAL UNIT - L-10000-4122
NOTES: 1016 AND 1017 HAVE IDENTICAL RESULTS

Dear Mr. Young:

The November 2013 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program file.

If you have any questions or comments please contact me.

Sincerely,

Handwritten signature

John L. Olson
Hydrogeologist
Solid Waste Section
Phone: 405-444-1811 Fax: 405-444-1314
E-mail: jolson@deq.ok.gov

cc: Mr. Gary Damscher, Party Coordinator, Consulting, 2211 York Rd, Houston, TX 77057

Correspondence Slip

Date Requested: 1-13-17

Originator: JTC

Date Needed By: 1-18-17

Name Task

Share Needs Proof

W&H

RT

Initial/Date

SN 1/13

W&H 1/17

REVIEW ROUTING

1-18-2017

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Mail copy of enclosures to CC's? Y ☒ N

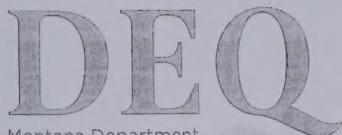
Special Instructions:

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? Y ☒ N

Email copies sent? Y N

EMAIL copy sent to Project Originator? Y N



Montana Department
of Environmental Quality

MAILED
11-4-16 SN

October 27, 2016

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: CLOSED UNIFIED DISPOSAL DISTRICT LANDFILL- LICENSE #389
SEPTEMBER 2016 METHANE MONITORING RESULTS

HILL

Dear Mr. Vincent:

The September 2016 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program files.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

MAILED
11-11-11

DEQ
New York State
Department of Environmental Conservation

October 11, 2011

Mr. John J. [Name]
[Address]
[City, State, Zip]

Handwritten initials

Re: [Subject Line]

Dear Mr. [Name]:

The [Subject] 2011 [Subject] report for the [Subject] facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the [Subject] file.

If you have any questions or comments please contact me.

Sincerely,

[Signature]

John J. [Name]
[Title]
[Address]
[City, State, Zip]
Phone: [Phone Number]
E-mail: [Email Address]

cc: Mr. [Name] [Address] [City, State, Zip] [Phone Number]

Correspondence SlipDate Requested: 10-25-16Originator: SLDate Needed By: 10-27-16REVIEW
ROUTING

Name	Task	Initial/Date
SIANA NELSEN	Proof	SN / 10/26
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KT		KT 11/2-2-16
		/

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to CC's? Y ☒ NCopies of enclosures
for file needed? Y ☒ NCopy of letter for file
needed? ☒ Y N

Email copies sent? Y N

EMAIL copy sent to Project Originator? Y N



MAILED
HS 5/25/16

May 25, 2016

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

**RE: CLOSED UNIFIED DISPOSAL DISTRICT LANDFILL- LICENSE #389
MARCH 2016 METHANE MONITORING RESULTS**

Dear Mr. Vincent:

The March, 2016 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Program files.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Section
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

MAILED
10/2/84

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Originator: JC

Date Needed By: 5-24-16

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

JB, 5/19/16

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WHL 520

RT

K, 5-20-16

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at:

Proof Path: G:\WUT\

Special Instructions:

Mail copy of enclosures to CC's? ☒ Y ☐ N

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? ☒ Y ☐ N

Email copies sent? Y N

EMAIL copy sent to Project Originator? Y N

Name _____ Address _____ City _____ State _____ Zip _____	
Date _____	
Subject _____	
Teacher _____	
School _____	
Home _____	
E-mail _____	
Special Instructions _____	
Other _____	
Remarks _____	
Signature _____	
Date _____	



MAILED
JB 2/19/16

February 23, 2016

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSES #389 AND #490**
RECEIVED – NOVEMBER 2015 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The November 2015 methane monitoring report for the Unified Disposal District Class II Landfill, Licenses #389 and #490, has been reviewed. With the exception of the exceedence at probe MG-1B at the old landfill (#389), the results of the methane monitoring are within regulatory limits and have been placed in the Solid Waste Programs files.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Hydrogeologist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

MAILED
FEB 14 1992

DEC
FEB 14 1992

February 1, 1992

Mr. Eric V. Smith
United Technologies
315 North Street
Hartford, CT 06103-1000

RE: Further Review of District I Licensee [REDACTED] and 4490
Hartford - November 1991

Dear Mr. Smith:

The results of 1991 further monitoring report for the United District Class II Licensee
[REDACTED] and 4490, has been reviewed. With the exception of the record in page 410-18, the
results of the monitoring (1991) the results of the further monitoring are within regulatory limits and have been
placed in the field 1991 program file.

If you have any questions or comments please contact me.

Sincerely,



John Collins
Hydrologist
State Water Program
Phone: 404-444-1171
Fax: 404-444-1172
Email: jcollins@swp.gov

cc: Mr. Eric V. Smith, State Water Program, 3331 York Rd, Hialeah, FL 33002



MAILED
AS 10/26/15

October 26, 2015

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

**RE: UNIFIED DISPOSAL DISTRICT LANDFILL- LICENSE #389
SEPTEMBER 2015 METHANE MONITORING RESULTS**

Dear Mr. Vincent:

The September, 2015 methane monitoring report for the subject facility has been reviewed. The results are within regulatory limits and consistent with previous reports and have been placed in the Solid Waste Programs files.

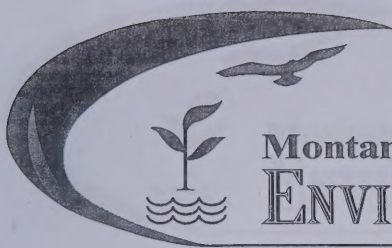
If you have any questions or comments please contact me.

Sincerely,

John Collins
Solid Waste Section
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

H111



Montana Department of
ENVIRONMENTAL QUALITY

MAILED

7-21-14

Steve Bullock, Governor
Tracy Stone-Manning, Director

P. O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • Website: www.deq.mt.gov

July 17, 2014

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSES #389 AND #490**
RECEIVED – JUNE 2014 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program has reviewed the June 2014 methane monitoring results for the Unified Disposal District Class II Landfill, Licenses #389 and #490, in Havre, Montana. With the exception of the exceedence at probe MG-1B and MG-1b at the old landfill (#389), the results of the methane monitoring are within regulatory limits.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring



Montana Department of
ENVIRONMENTAL QUALITY

MAILED

21-23-14 *JS*

Steve Bullock, Governor
Tracy Stone-Manning, Director

P. O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • Website: www.deq.mt.gov

April 23, 2014

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSES #389 AND #490**
RECEIVED – MARCH 2014 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program has reviewed the March 2014 methane monitoring results for the Unified Disposal District Class II Landfill, Licenses #389 and #490, in Havre, Montana. With the exception of the exceedence at probe MG-1B at the old landfill (#389), the results of the methane monitoring are within regulatory limits.

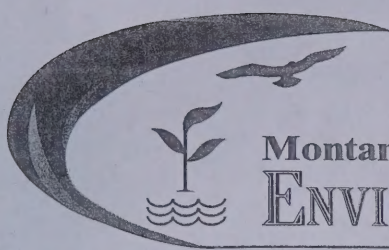
If you have any questions or comments please contact me.

Sincerely,

John Collins
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring



Montana Department of
ENVIRONMENTAL QUALITY

MAILED
10-11-13 *JK*

Steve Bullock, Governor
Tracy Stone-Manning, Director

P. O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • Website: www.deq.mt.gov

October 9, 2013

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSES #389**
RECEIVED – SEPTEMBER 2013 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program has reviewed the September 2013 methane monitoring results for the Unified Disposal District Class II Landfill, Licenses #389, in Havre, Montana. With the exception of the exceedence at probe MG-1B and MG-2B at the old landfill (#389), the results of the methane monitoring are within regulatory limits.

If you have any questions or comments please contact me.

Sincerely,

John Collins
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: jcollins3@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring

Correspondence Slip

Date Requested: 10-8-13

Originator: JL

Date Needed By: _____

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

JL 10-8

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BT 10-9-13

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at:

Proof Path: G:\WUT_____

Mail copy of enclosures
to CC's? Y N

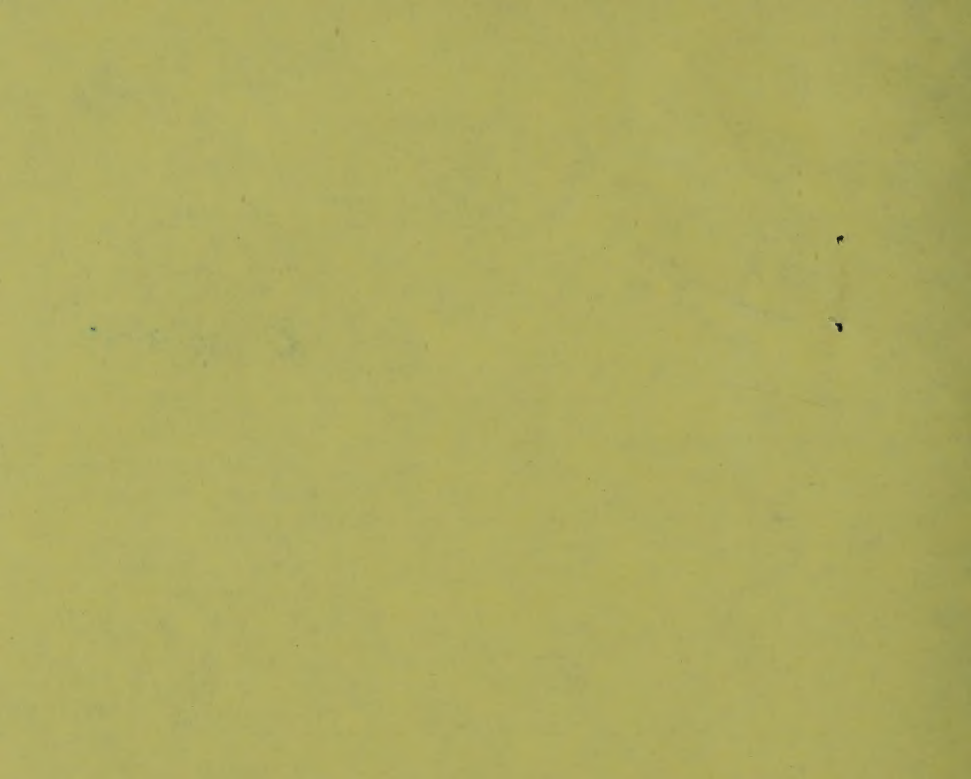
Special Instructions:

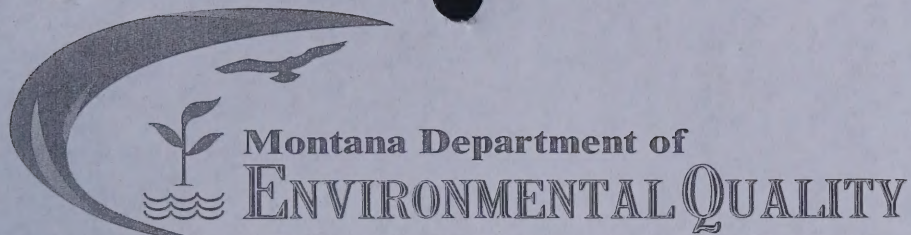
Copies of enclosures
for file needed? Y N

Copy of letter for file
needed? ☒ Y N

Email copies sent? Y N

EMAIL copy sent to Project Originator? Y N





MAILED
10/19/12 mfm

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

October 19, 2012

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSE #389 & #490**
JULY 2012 METHANE MONITORING RESULTS

Dear Mr. Vincent:

I have reviewed the July 2012 methane monitoring results for the Unified Disposal District Class II Landfills, License #389 and #490, in Havre, Montana. With the exception of the exceedances at probes MG-1A and MG-1B at the old landfill, license #389, the results of the methane monitoring are within regulatory limits.

Please remember that Administrative Rule of Montana (ARM) 17.50.1106(4)(a) requires that the Department be notified immediately of any methane exceedance, and ARM 17.50.1106(4)(b) requires the specification of the methane levels detected be placed in the facility operating record within seven days of monitoring.

Based on the history of methane exceedances at the old landfill, #389, methane control will be required during the closure of the facility. Alternatively, you may wish to consider installing new methane probes located closer to the facility property boundary, which could demonstrate compliance with the methane standard and eliminate the need for methane controls.

The revisions to the Methane Monitoring Plan for the new landfill, #490, were due by January 4, 2012, but have not yet been received. I discussed these revisions with Barry Damschen and Mark Walker during a meeting on April 3, 2012. Please submit the revised Methane Monitoring Plan for License #490 as soon as possible.

If you have any questions or comments regarding this review, please contact me.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Hill Co.\Unified Disposal District Class II\License #490\Methane Monitoring

Correspondence Slip

Originator: MVO

Date Requested: 10/15/12

Date Needed By: 10/19/12

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

fh 11/27/12

Mary H

Review

Chek 10-15

Brace

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RD 10-15-12

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RT 10-16-12

Mail original via:

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Mail copy of enclosures
to CC's? Y ☒ N

Special Instructions:

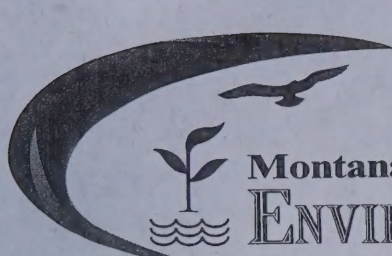
Copies of enclosures
for file needed? Y ☒ N

Copy of letter for file
needed? ☒ Y N

Email copies sent? Y ☒ N

EMAIL copy sent to Project Originator? Y N

10-10-1914
Carol T. H.



Montana Department of
ENVIRONMENTAL QUALITY

MAILED
8-8-12

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

August 6, 2012

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

**RE: UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSE #389 & #490
JUNE 2012 METHANE MONITORING RESULTS**

Dear Mr. Vincent:

I have reviewed the June 2012 methane monitoring results for the Unified Disposal District Class II Landfills, License #389 and #490, in Havre, Montana. With the exception of the exceedances at probes MG-1A and MG-2A at the old landfill, license #389, the results of the methane monitoring are within regulatory limits.

Based on the history of methane exceedances at the old landfill, #389, methane control will be required during the upcoming closure of the facility. Alternatively, you may wish to consider installing new methane probes located closer to the facility property boundary, which could demonstrate compliance with the methane standard and eliminate the need for methane controls.

The revisions to the Methane Monitoring Plan for the new landfill, #490, were due by January 4, 2012, but have not yet been received. I discussed these revisions with Barry Damschen and Mark Walker during a meeting on April 3, 2012. Please submit the revised Methane Monitoring Plan for License #490 as soon as possible.

If you have any questions or comments regarding this review, please contact me.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Hill Co.\Unified Disposal District Class II\License #490\Methane Monitoring

Correspondence Slip

Date Requested: 8/2/12

Originator: MVD

Date Needed By: 8/6/12

REVIEW
ROUTING

Name

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Initial/Date

Admin

Proof

JH 8-2-12

Marylt

Review

men 83

Bruce

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8-3-12

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Mail original via:

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Fax to addressee at

Proof Path: G:\WUT_____

Mail copy of enclosures to CC's? Y ☒ N

Special Instructions:

Copies of enclosures for file needed? Y ☒ N

Copy of letter for file needed? ☒ Y N

Email copies sent? Y ☒ N

EMAIL copy sent to Project Originator? Y N

29-3-2 100
51-5-8 21



Montana Department of
ENVIRONMENTAL QUALITY

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

April 6, 2012

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSE #389 & #490**
MARCH 2012 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program (SWP) has reviewed the March 2012 methane monitoring results for the Unified Disposal District Class II Landfills, License #389 and #490, in Havre, Montana. The results of the methane monitoring are within regulatory limits.

The revisions to the Methane Monitoring Plan for the new landfill, #490, were due by January 4, 2012, but have not yet been received by the SWP. I discussed these revisions with Barry Damschen and Mark Walker during a meeting on April 3, 2012, and expect to receive the revised plan in the near future.

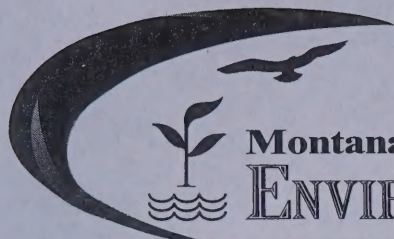
If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Hill Co.\Unified Disposal District Class II\License #490\Methane Monitoring



Montana Department of
ENVIRONMENTAL QUALITY

MAILED
1-11-12 gh

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

January 10, 2012

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSE #389 & #490**
NOVEMBER 2011 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program (SWP) has reviewed the November 2011 methane monitoring results for the Unified Disposal District Class II Landfills, License #389 and #490, in Havre, Montana. The results of the methane monitoring are within regulatory limits.

The revisions to the Methane Monitoring Plan for the new landfill, #490, were due by January 4, 2012, but have not yet been received by the SWP. Please submit the revised plan to the SWP as soon as possible.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Hill Co.\Unified Disposal District Class II\License #490\Methane Monitoring

MAILED

Department of
ENVIRONMENTAL QUALITY



January 10, 2012

Mr. Jay Varian
Lumber Business Institute
315 South Main Street
Blaine, MT 59717

Re: Lumber Business Institute - Lumber Mills & Mills
November 2011 Air Emissions Report

Dear Mr. Varian:

The Air Quality Program (AQP) has received the November 2011 Air Emissions Report for the Lumber Business Institute (LBI) and is pleased to inform you of the results. The report is the first of its kind and is a significant step in the AQP's ongoing efforts to improve air quality in the region.

The report is a valuable tool for the AQP in its ongoing efforts to improve air quality in the region. It provides a detailed overview of the LBI's air emissions and is a key component of the AQP's ongoing efforts to improve air quality in the region.

If you have any questions or comments regarding the report, please contact me at the following address: [Address].

Sincerely,

Mr. Jay Varian

Mr. Jay Varian
Lumber Business Institute
315 South Main Street
Blaine, MT 59717

cc: Mr. Jay Varian, Lumber Business Institute, 315 South Main Street, Blaine, MT 59717

The report is a valuable tool for the AQP in its ongoing efforts to improve air quality in the region. It provides a detailed overview of the LBI's air emissions and is a key component of the AQP's ongoing efforts to improve air quality in the region.

Correspondence Slip

Date Requested: 1/6/12

Originator: MVO

Date Needed By: 1/10/12

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

Jh 1-6-12

Mary H

Review

AKH 1-9

Bruce

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BD 1-10-12

Rick

RT 1-11-12

Mail original via:

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Fax to addressee at:

Proof Path: G:\WUT_____

Mail copy of enclosures
to CC's? Y ☒

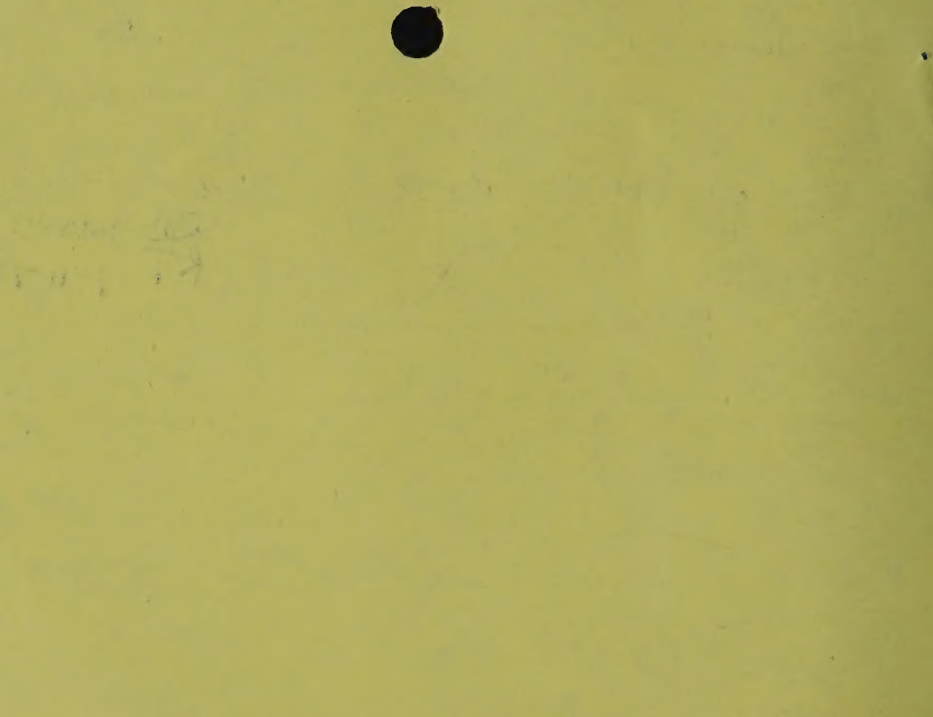
Special Instructions:

Copies of enclosures
for file needed? Y ☒

Copy of letter for file
needed? ☒ N

Email copies sent? Y ☒

EMAIL copy sent to Project Originator? Y N





Montana Department of
ENVIRONMENTAL QUALITY

MAILED
10-24-11 JA

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

October 20, 2011

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILLS – LICENSE #389 & #490**
AUGUST 2011 METHANE MONITORING RESULTS
METHANE MONITORING REQUIREMENTS FOR NEW LANDFILL

Dear Mr. Vincent:

The Solid Waste Program (SWP) has reviewed the August 2011 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The results of the methane monitoring are within regulatory limits.

Please remember that methane monitoring at the new landfill, License #490, must begin prior to initial receipt of waste. The SWP has not yet received a methane monitoring plan for the new landfill, which must be approved by the SWP prior to initiating methane monitoring.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Hill Co.\Unified Disposal District Class II\License #490\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\2011-08_Unified_CH4.docx



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ENVIRONMENTAL QUALITY

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Brian Schweitzer, Governor
Richard H. Opper, Director

August 9, 2011

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
MAY-JULY 2011 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program (SWP) has reviewed the May-July 2011 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The results of the methane monitoring are within regulatory limits and consistent with previous reports.

The facility may return to quarterly methane monitoring at this time. However, if methane exceedances are detected in future quarterly monitoring events, please conduct monthly follow-up measurements until methane concentrations return below regulatory limits.

Based on the history of methane exceedances in the existing probes, methane control will be required during the upcoming closure of the facility. You may wish to consider installing new methane probes located closer to the facility property boundary, which could demonstrate compliance with the methane standard and eliminate the need for methane controls.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Rd, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Path: G:\WUT\SW\Methane\Report Replies\Hill\2011-05_to_07_Unified_CH4.docx

MAILED

Department of
Environmental Quality



Office of the Secretary
Department of Environmental Quality

P.O. Box 12000 • Helena, MT 59612-0000 • (406) 441-2000 • Fax: (406) 441-2001

August 1991

Mr. Jay V. ...
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Dear Mr. ...

The ...
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Based on the ...
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If you have any questions or comments regarding this notice please contact me at the following and ...

Sincerely,

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cc: Mr. Barry ...

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Correspondence Slip

Date Requested:

8/2/11

Originator:

MVD

Date Needed By:

8/5/11

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

Jh, 8-2-11

Mary H

Review

Chlw 8-3

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~~RT~~, 8-3-11

Rock

RT, 8-8-11

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

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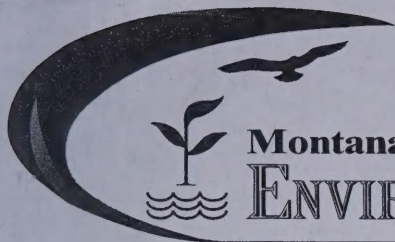
see letter

Mail copy of enclosures
to CC's? Y ☒ N

Special Instructions:

Copies of enclosures
for file needed? Y ☒ NCopy of letter for file
needed? ☒ Y ☐ NEmail copies sent? Y ☒ NEMAIL copy sent to Project Originator? Y ☐ N





Montana Department of
ENVIRONMENTAL QUALITY

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

MAILED
4-18-11 *fh*

Brian Schweitzer, Governor
Richard H. Opper, Director

April 18, 2011

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
MARCH 2011 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program (SWP) has reviewed the March 2011 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. With the exception of the exceedance at methane probes MG-1B, the results are within regulatory limits and consistent with previous reports. Because of frequency and magnitude the methane exceedances, methane gas controls will be required in the upcoming closure of this facility. In order to design an appropriate gas control system, additional information on temporal changes in methane concentration will be necessary. Therefore, please conduct future methane monitoring on a monthly basis. You may also wish to consider collecting gas samples from within the waste unit for laboratory analysis to better define the landfill gas constituents at their source.

Thank you for reporting the results of these methane monitoring exceedances to the SWP within the required seven days of detection.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, P.O. Box 7599, Helena, MT 59604

File: Hill Co.\Unified Disposal District Class IILicense #389\Methane Monitoring
Path: G:\WUTSWS\Methane\Report Replies\Hill\2011-03_Unified_CH4.docx

OLIAM

Correspondence Slip

Originator: MVO

Date Requested: 4/11/11

Date Needed By: 4/14/11

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

4/14-11-11

Max H

Review

4/14-11

Bruce

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4/14-11

Rock

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4/14-15-11

Mail original via:

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Special Instructions:

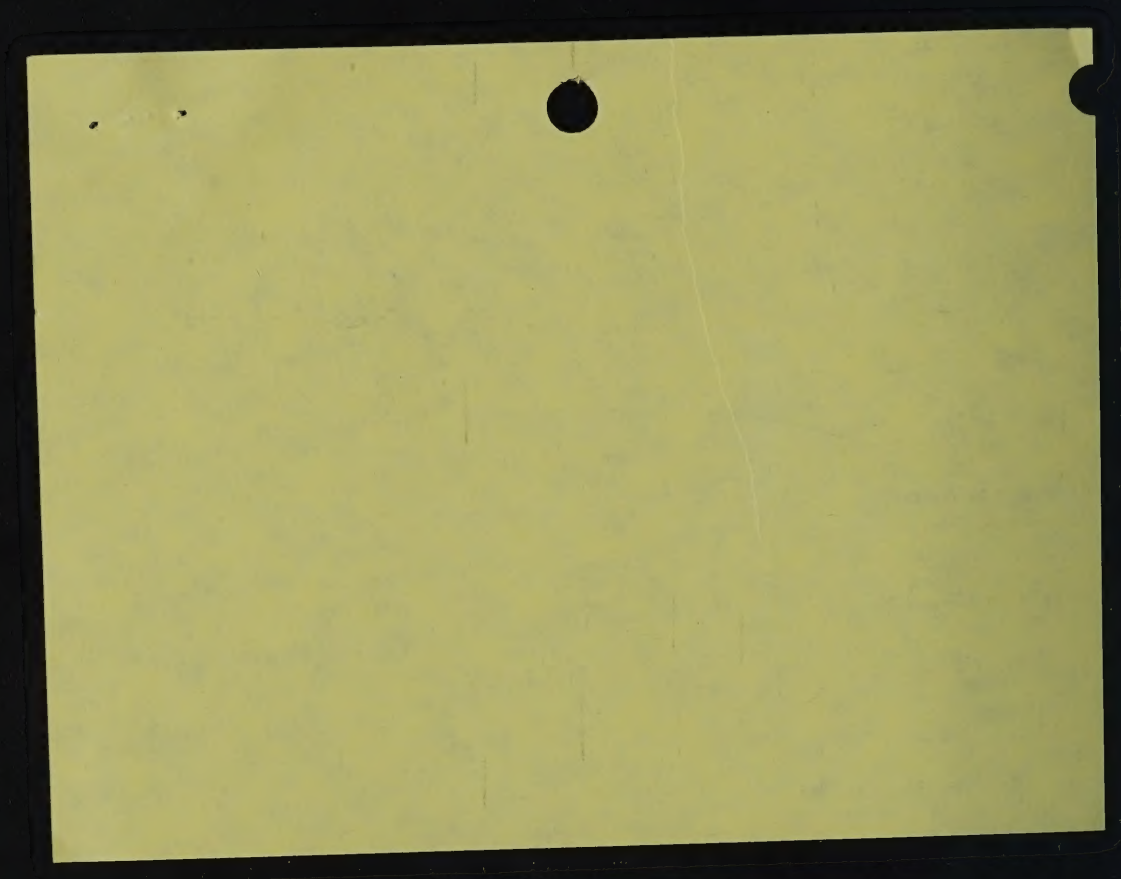
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to CC's? Y ☒ N

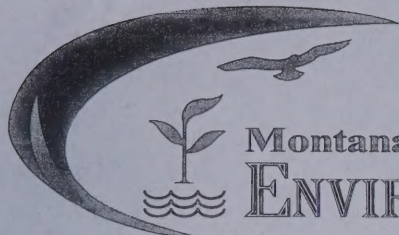
Copies of enclosures
for file needed? Y ☒ N

Copy of letter for file
needed? ☒ Y N

Email copies sent? Y ☒ N

EMAIL copy sent to Project Originator? Y N





Montana Department of
ENVIRONMENTAL QUALITY

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

January 13, 2011

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
NOVEMBER 2010 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Solid Waste Program has reviewed the November 2010 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The results of the methane monitoring are within regulatory limits and are consistent with previous reports.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, P.O. Box 7599, Helena, MT 59604

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\2010-11_Unified_CH4.docx

Correspondence Slip

Originator: MVD

Date Requested: 1/11/11

Date Needed By: 1/13/11

REVIEW
ROUTING

Name

Task

Initial/Date

Admin

Proof

DE, 1/11

Mary H

Review

Call 1-12

Rick

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KT, 1-12-11

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

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Proof Path: G:\WUT\ see letter

Special Instructions:

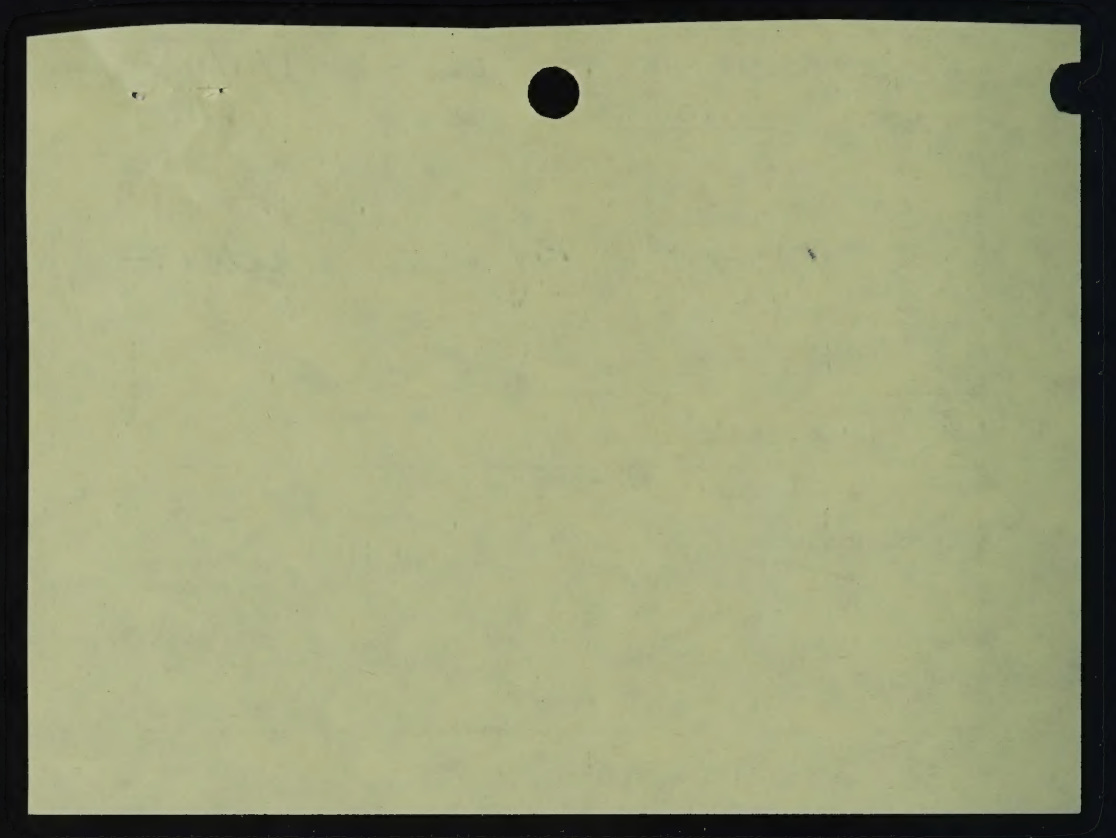
Mail copy of enclosures
to CC's? Y ☒ N

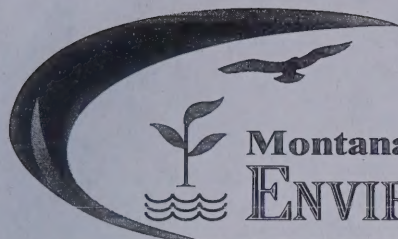
Copies of enclosures
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Copy of letter for file
needed? ☒ Y N

Email copies sent? ☒ Y ☒ N

EMAIL copy sent to Project Originator? Y N





Montana Department of
ENVIRONMENTAL QUALITY

MAILED
10-28-10 Jh

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

October 28, 2010

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
SEPTEMBER 2010 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the September 2010 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The results of the methane monitoring are within regulatory limits and are consistent with previous reports.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Road, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\2010-09_Unified_CH4.doc

MAILED

Correspondence SlipOriginator: MVDDate Requested: 10/22/10Date Needed By: 10/28/10REVIEW
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Initial/Date

AdminProofJh 10-22Mary HReview1Darrell↓Das 10/22Rock↓KT 10-25-10

Mail original via:

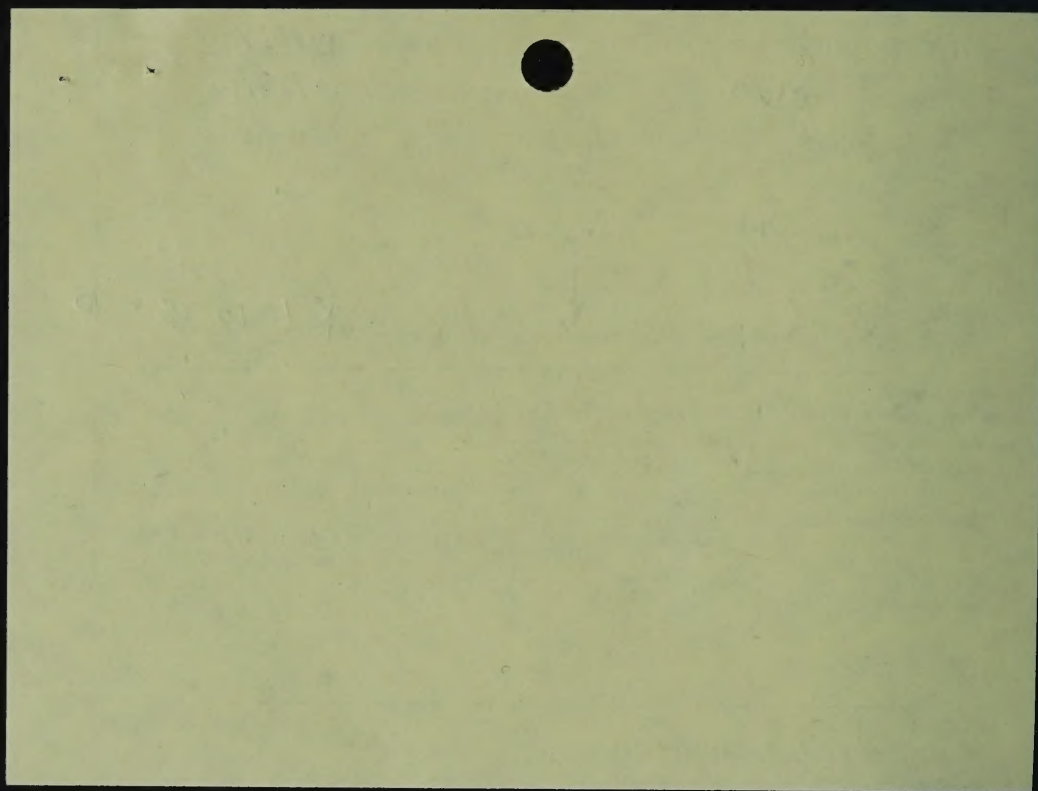
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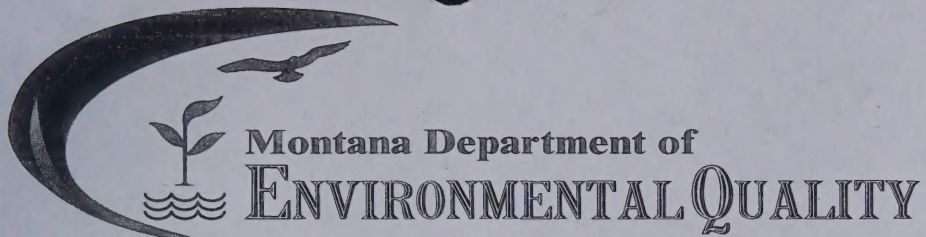
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San letterMail copy of enclosures
to CC's? Y ☒ N**Special Instructions:**Copies of enclosures
for file needed? Y ☒ NCopy of letter for file
needed? ☒ NEmail copies sent? Y ☒ N

EMAIL copy sent to Project Originator? Y N





Montana Department of
ENVIRONMENTAL QUALITY

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

July 30, 2010

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
MARCH AND JUNE 2010 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the March and June 2010 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. With the exception of the exceedances at methane probes MG-1A and MG-1B in March and probes MG-1A, MG-1B and MG-2B in June, the results are within regulatory limits and consistent with previous reports. Because of frequency and magnitude these methane exceedances, methane gas controls should be included in the upcoming closure of this facility.

Administrative Rule of Montana 17.50.1106(4) describes the procedures which must be followed when methane gas levels exceeding regulatory limits are detected. These include:

- Immediately take any steps necessary to protect human health and notify the Department
- Within 7 days of detection place in the operating record (and submit to the Department) a specification of the methane levels detected and steps taken to protect human health
- Within 60 days of detection submit for Department approval and implement a remediation plan

In the future, please ensure these procedures are followed whenever methane exceedances are detected.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

cc: Mr. Barry Damschen, Barry Damschen Consulting, 5531 York Road, Helena, MT 59602

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring
Path: G:\WUTSWS\Methane\Report Replies\Hill\2010-03_&_06_Unified_CH4.doc

Correspondence SlipOriginator: MVODate Requested: 7/28/10Date Needed By: 7/30/10REVIEW
ROUTING

Name

Task

Initial/Date

AdminProofJh 7-28-10Mary HReviewMCH 7-29Darroll↓Das, 7/29RickDas for RT

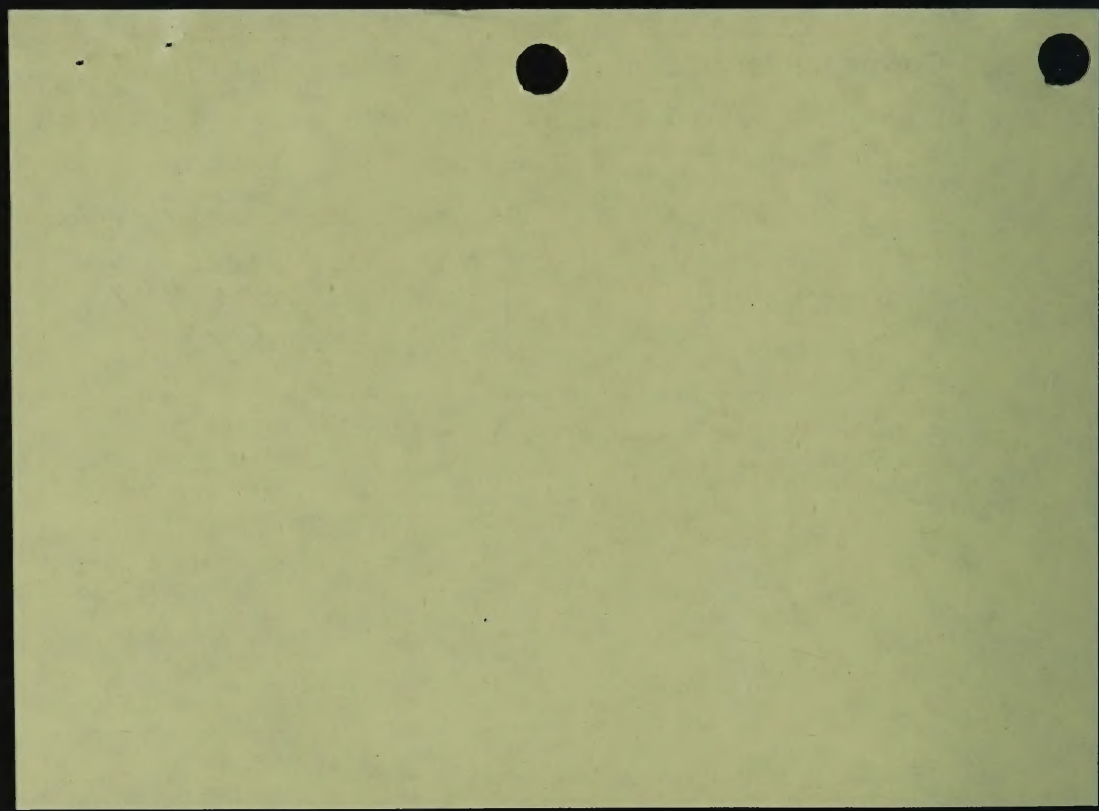
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Fax to addressee at:

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to CC's? Y ☒ N**Special Instructions:**Copies of enclosures
for file needed? Y ☒ NCopy of letter for file
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MAILED
1/8/2010 mfm

Brian Schweitzer, Governor
Richard H. Opper, Director

January 14, 2010

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
NOVEMBER 2009 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the November 2009 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The methane monitoring results are within regulatory limits and consistent with previous reports.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

File: Hill Co.\Unified Disposal District Class II\License #389\Methane Monitoring

Path: G:\WUT\SWS\Methane\Report Replies\Hill\2009-11_Unified_CH4.doc

cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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Correspondence Slip

Project ID: _____

Requested: 1/12/10

Needed By: 1/14/10

Originator: MVD

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REVIEW
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Name	Task	Initial/Date
<u>Admin</u>	<u>Proof</u>	<u>Sh 1/12-12</u>
<u>Max H</u>	<u>Review</u>	<u>Chell 1/1-13</u>
<u>Darrell</u>	<u>Review</u>	<u>slas 1/1-13</u>
<u>Rick</u>	<u>Review</u>	<u>KT 1/1-15-2010</u>
<u>Admin</u>	<u>mail</u>	<u>Mfm 1/1-15-10</u>

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Fax to addressee at: _____

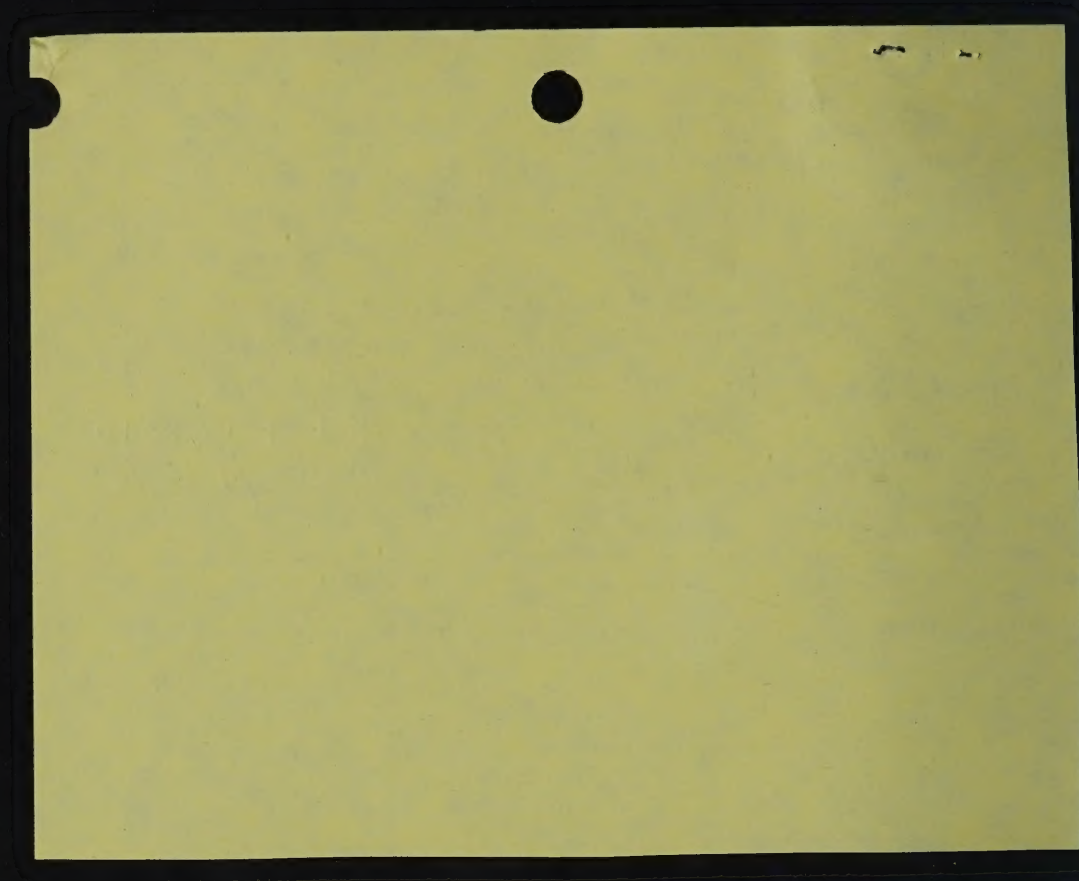
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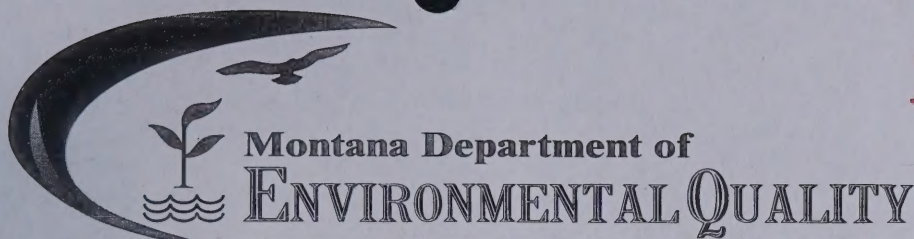
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10-22-09 gh

Brian Schweitzer, Governor
Richard H. Opper, Director

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

October 21, 2009

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
SEPTEMBER 2009 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the September 2009 methane monitoring results for the Unified Disposal District Class II Landfill in Havre, Montana. The methane monitoring results are within regulatory limits and consistent with previous reports.

If you have any questions or comments regarding this review, please contact me at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

File: Hill Co.\Unified Disposal District Class IILicense #389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\2009-09_Unified_CH4.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

MAILED

Correspondence SlipRequested: 10/20/09Name: _____
Needed By: 10/22/09Originator: MVD

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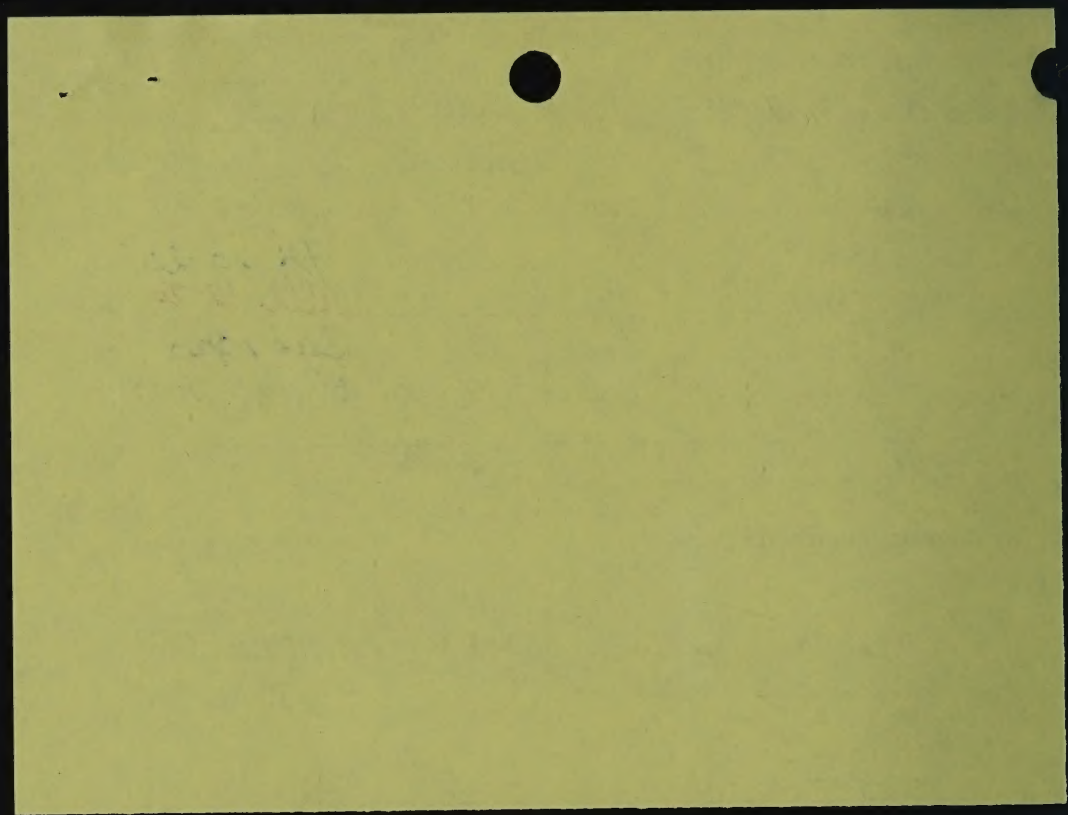
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<u>Darrell</u>	<u>Review</u>	<u>Das 10/20</u>
<u>Rick</u>	<u>Review</u>	<u>KT 10-21-09</u>

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7-17-09 gh

Brian Schweitzer, Governor

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July 17, 2009

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
JUNE 2009 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the June 2009 methane monitoring results for the Unified Disposal District Class II Landfill in Hill County, Montana. The monitoring results are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

File: Hill Co.\Unified Disposal District Class IILicense #389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\2009-06_Unified_CH4.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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Correspondence SlipRequested: 7/15/09

Name: _____

Needed By: 7/17/09Originator: MVO

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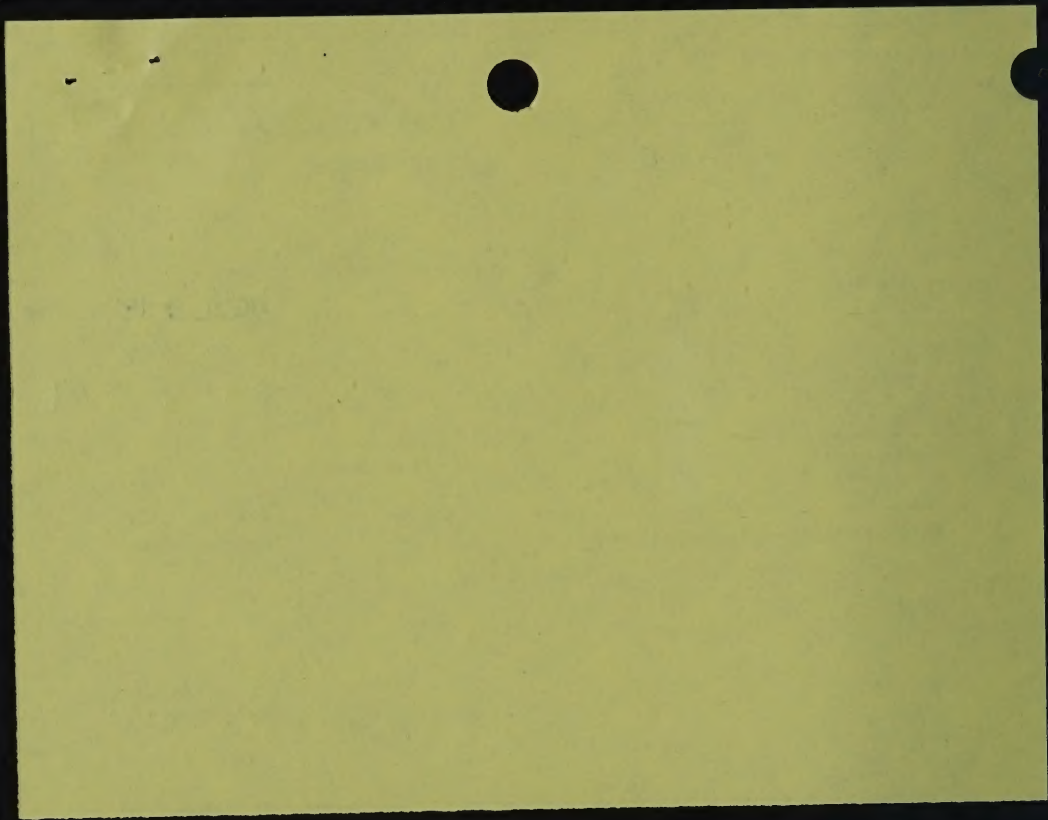
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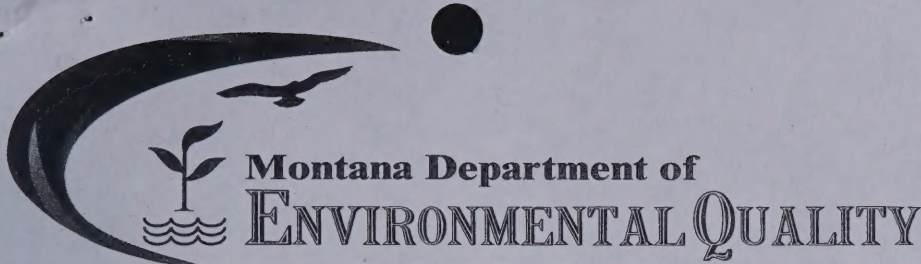
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Brian Schweitzer, Governor

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April 15, 2009

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
MARCH 2009 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the March 2009 methane monitoring results for the Unified Disposal District Class II Landfill in Hill County, MT. The results are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Sincerely,

Martin Van Oort
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-2802, Fax: 406-444-1374
E-mail: mvanoort@mt.gov

File: Hill Co.\Unified Disposal District Class I\License #389\Methane Monitoring

Path: G:\WUTSWS\Methane\Report Replies\Hill\2009-03_Unified_CH4.doc

cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

Correspondence Slip**Object ID:** _____Requested: 4-13-08Needed By: 4-15-08Originator: MVD

Org(s)/Mail Code: _____

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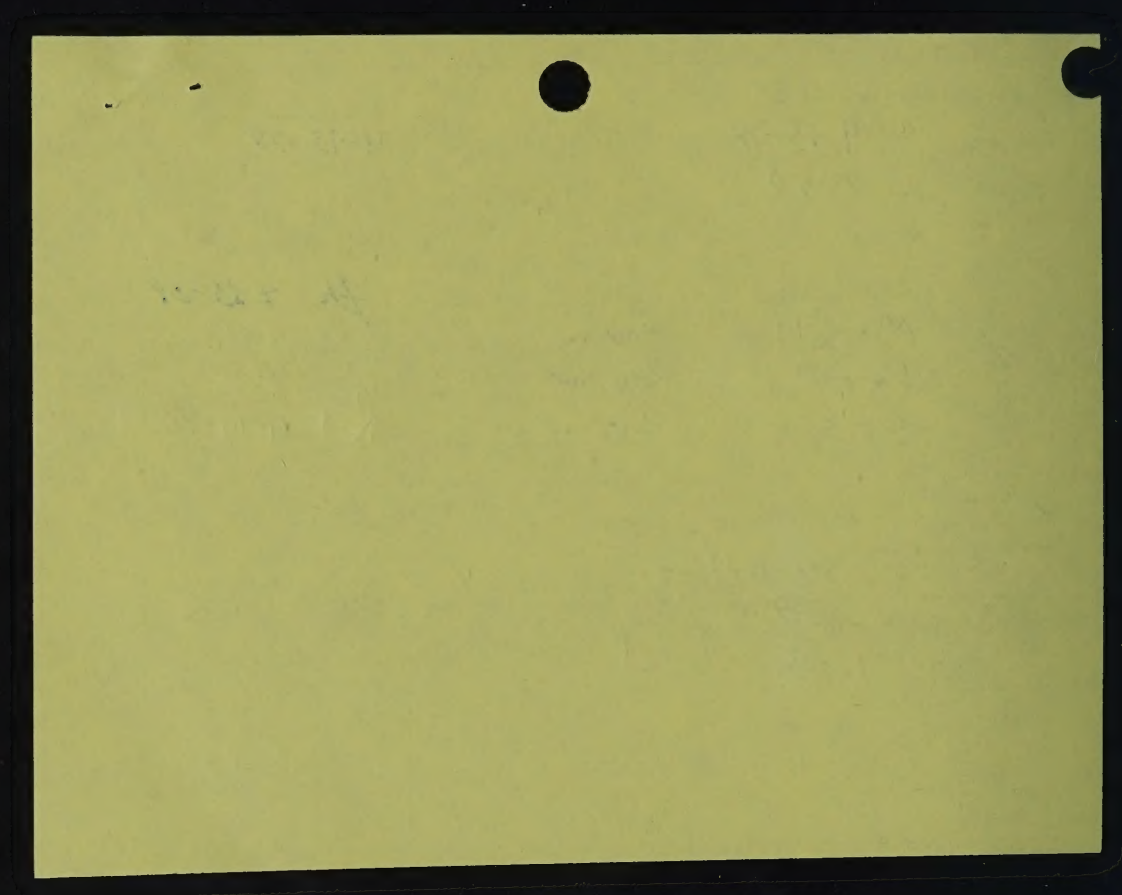
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<u>Mary H</u>	<u>Review</u>	<u>Jch, 4-14</u>
<u>Danrell</u>	<u>Review</u>	<u>ifas 4/14</u>
<u>Rock</u>	<u>Review</u>	<u>KT, 4-14-2008</u>

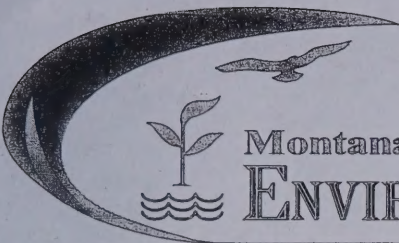
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Brian Schweitzer, Governor

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February 10, 2009

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
METHANE MONITORING RESULTS REVIEW

Dear Clay:

The Department has reviewed the Unified Disposal District Class II Landfill's methane monitoring summary report. The results of the landfill gas monitoring are within regulatory limits and consistent with previous reports. The Department agrees with the report, in that at the present time, no additional action is needed regarding the methane exceedances within the facility boundary. Finally, please submit all future methane monitoring reports to the attention of Martin Van Oort in the Department's Solid Waste Program.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Solid Waste Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class IILicense#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-Smmry2008.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

Correspondence Slip

Project ID: _____

Requested: 2-6Needed By: 2-10Originator: mlh

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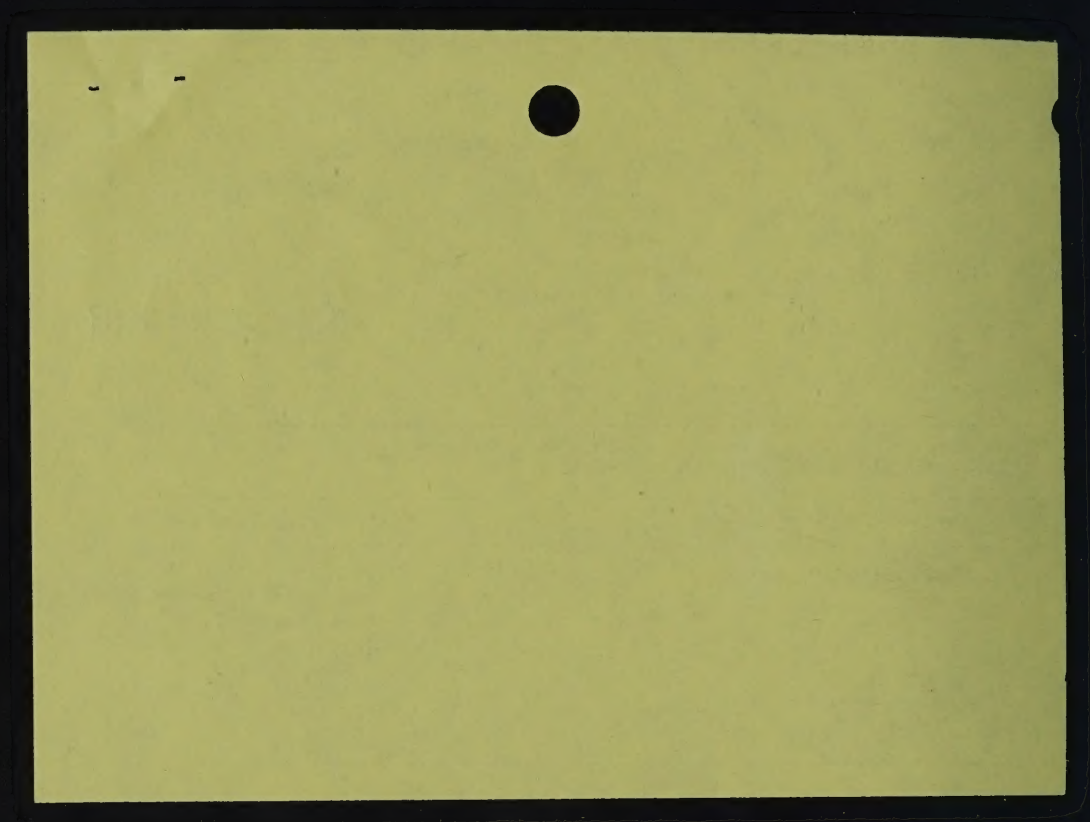
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8-15-08 *gn*

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

August 14, 2008

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
JUNE 2008 METHANE MONITORING RESULTS REVIEW

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II Landfill's June 2008 methane monitoring report. The results are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-June2008.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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Requested: 873-28

Needed By: _____

Originator: MLH

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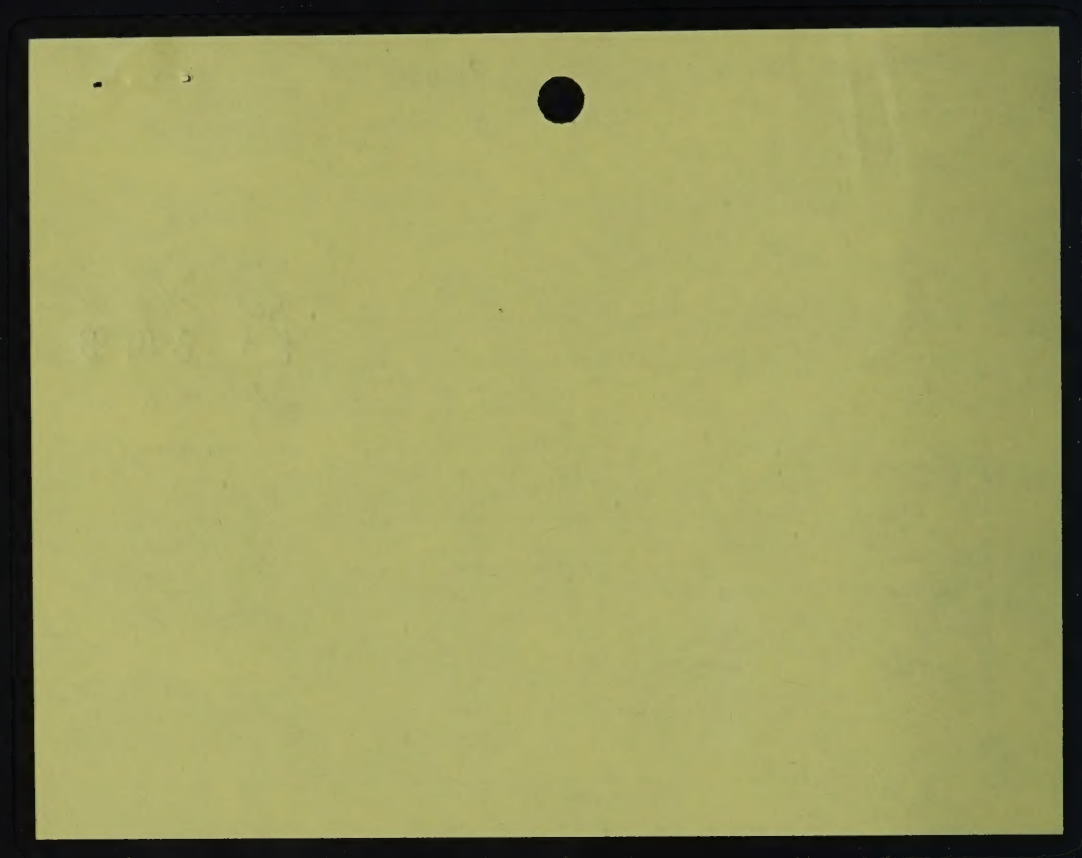
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MAILED
4-24-08 *jh*

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

April 24, 2008

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
FEBRUARY 2008 METHANE MONITORING RESULTS REVIEW
LANDFILL GAS MONITORING PLAN REVIEW**

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's February 2008 methane monitoring report and the updated landfill gas monitoring plan. The results of the landfill gas monitoring are within regulatory limits and consistent with previous reports. In addition, the updated landfill gas monitoring plan is approved.

If you have any questions regarding these reviews, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-Mar2008.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

MAILED

Correspondence Slip**Project ID:** _____**Requested:** 4-23**Needed By:** 4-24**Originator:** mech**Org(s)/Mail Code:** _____REVIEW
ROUTING**Name****Task****Initial/Date**Admin James

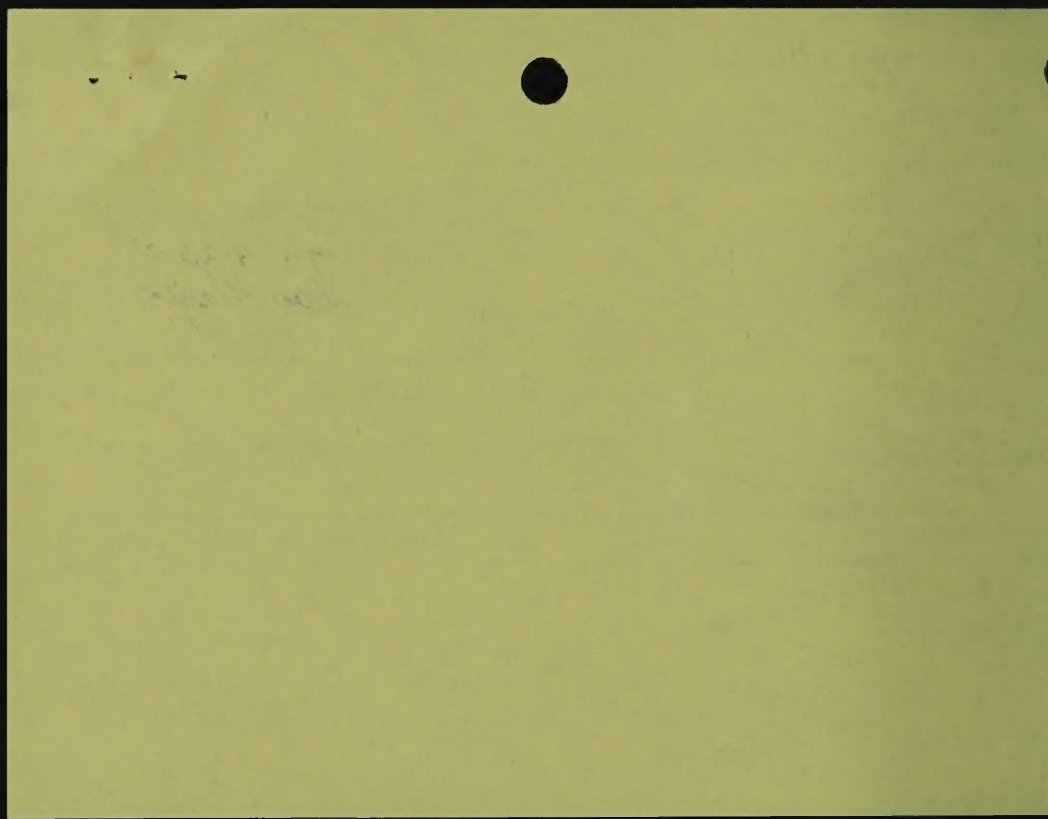
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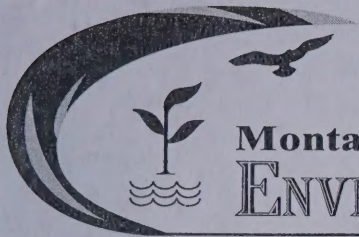
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to CC's?** Y N**Special Instructions:****Copies of enclosures
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Montana Department of
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2-28-08

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

February 29, 2008

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
REVIEW OF DECEMBER 2007 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's December 2007 methane monitoring report. The results, including those collected from well #1, are within regulatory limits and consistent with previous reports. Based on the location of the monitoring wells in relation to the active areas, at the present time, no action is necessary. However, any activity performed in the vicinity of MG-1 should be monitored for the presence of methane prior to the commencement of work in the area.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-Dec2007.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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Project ID: _____

Requested: 2-27Needed By: 2-29Originator: mlh

Org(s)/Mail Code: _____

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Jh 12-27-08Daniel

Das 12/27/08Rick

RT 12-27-08

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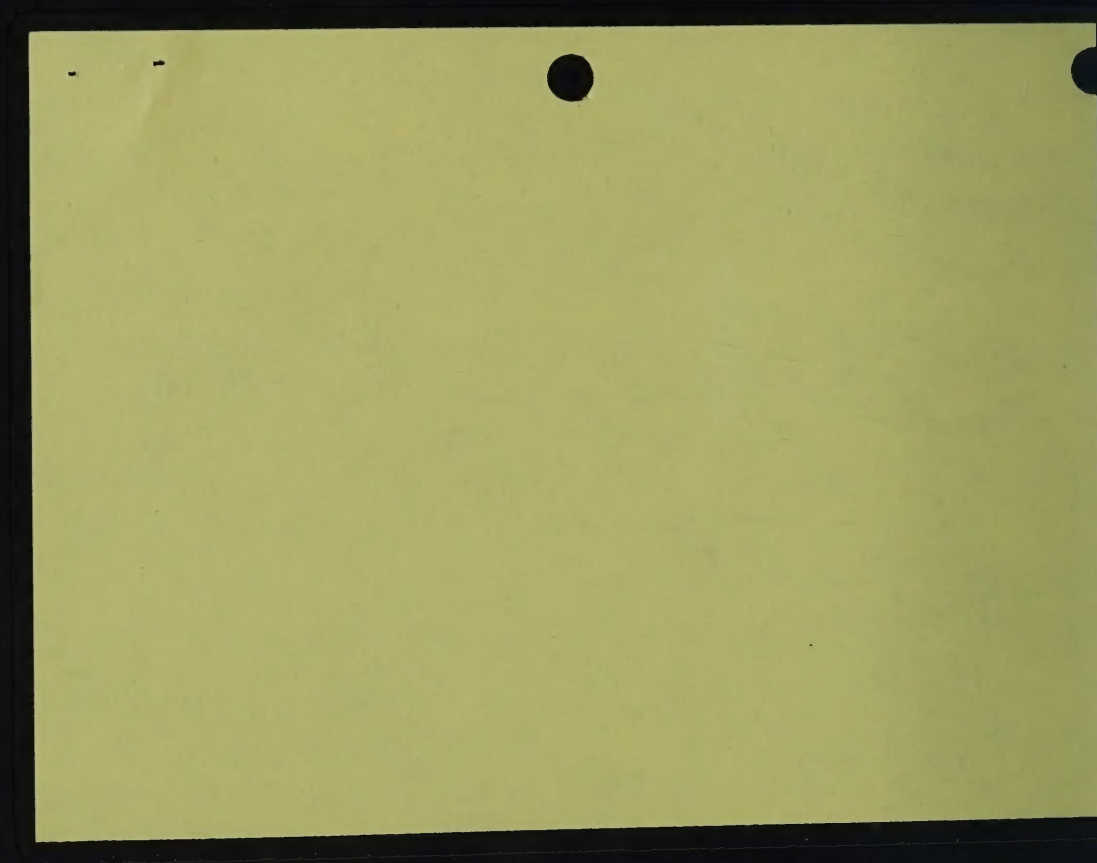
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**Montana Department of
ENVIRONMENTAL QUALITY**

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11-13-07 jk

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

November 9, 2007

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
REVIEW OF SEPTEMBER 2007 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's September 2007 methane monitoring report. The results, including those collected from well #1, are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-Sept2007.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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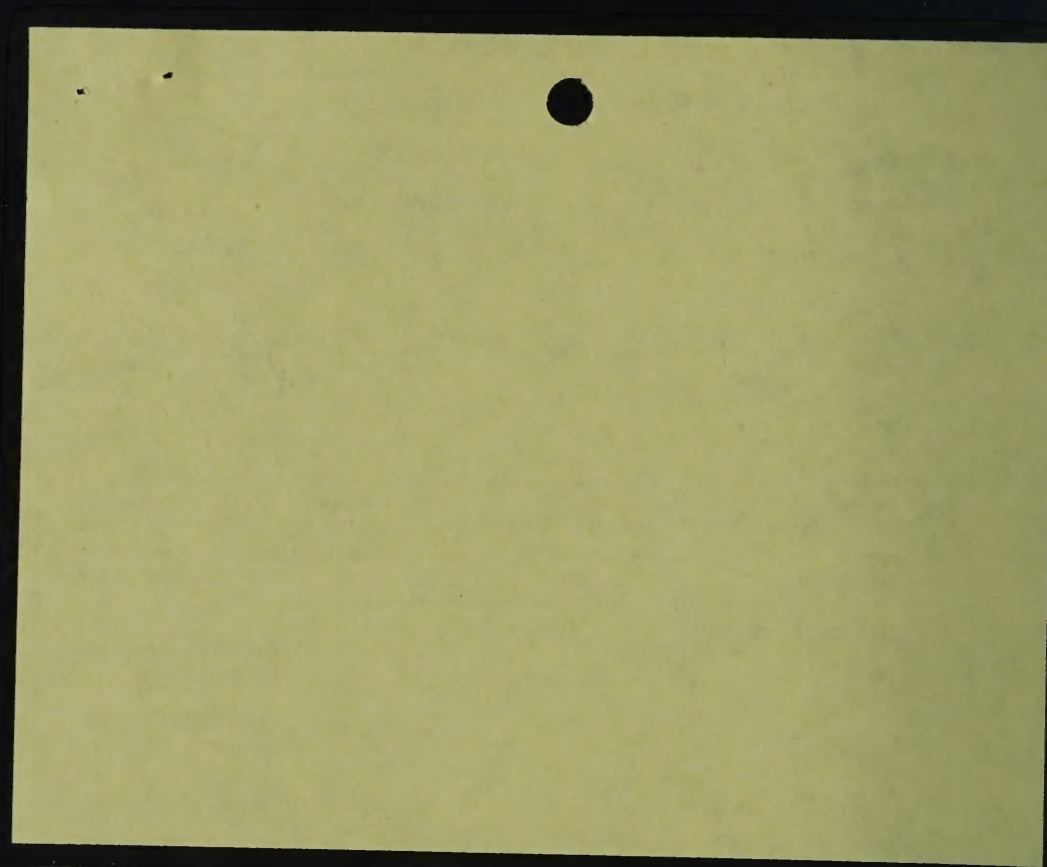
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JH 11-8-07

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to CC's?** Y N**Special Instructions:****Copies of enclosures
for file needed?** Y N**Copy of letter for file
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Montana Department of
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9-11-07 Sh

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

September 10, 2007

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

**RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
REVIEW OF MAY 2007 METHANE MONITORING RESULTS**

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's May 2007 methane monitoring report. The results, including those collected from well #1, are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
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cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

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Correspondence Slip**Project ID:** _____Requested: 9-7Needed By: 9-10Originator: mlh

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REVIEW
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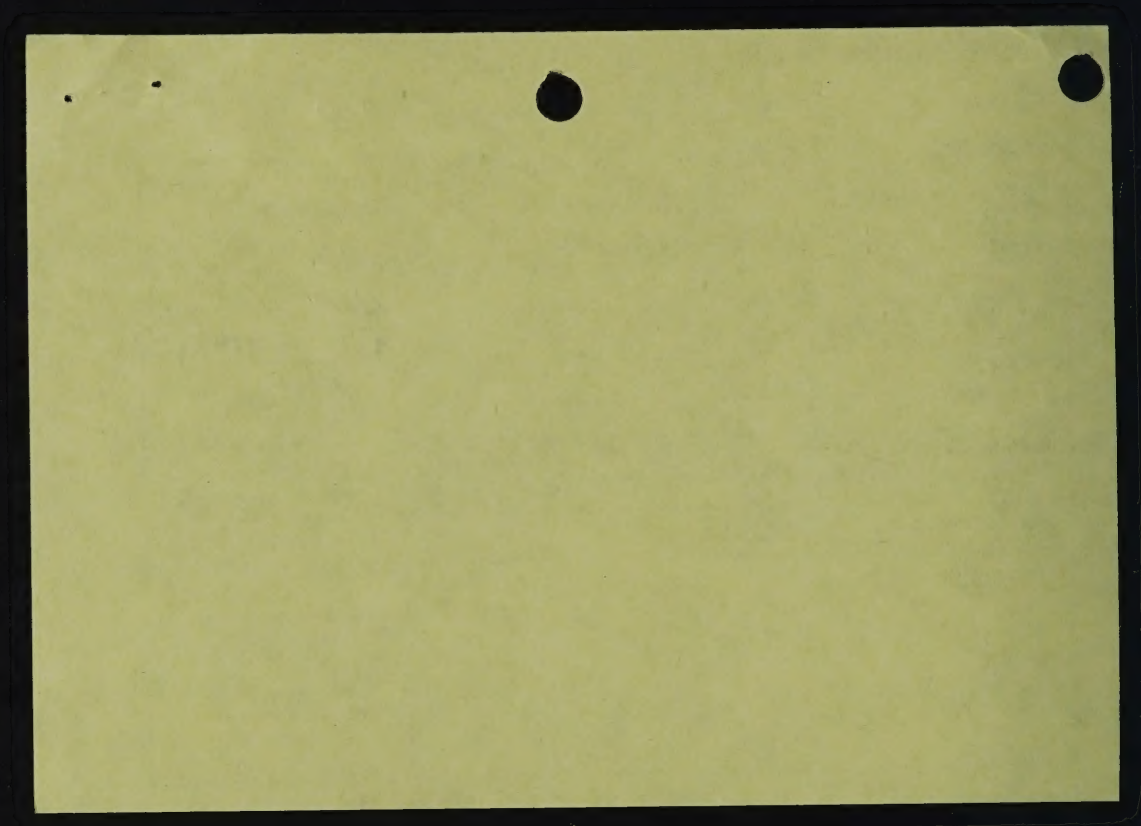
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**Montana Department of
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Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

April 26, 2007

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

**RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
REVIEW OF MARCH 2007 METHANE MONITORING RESULTS**

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's March 2007 methane monitoring report. The results are within regulatory limits and consistent with previous reports.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

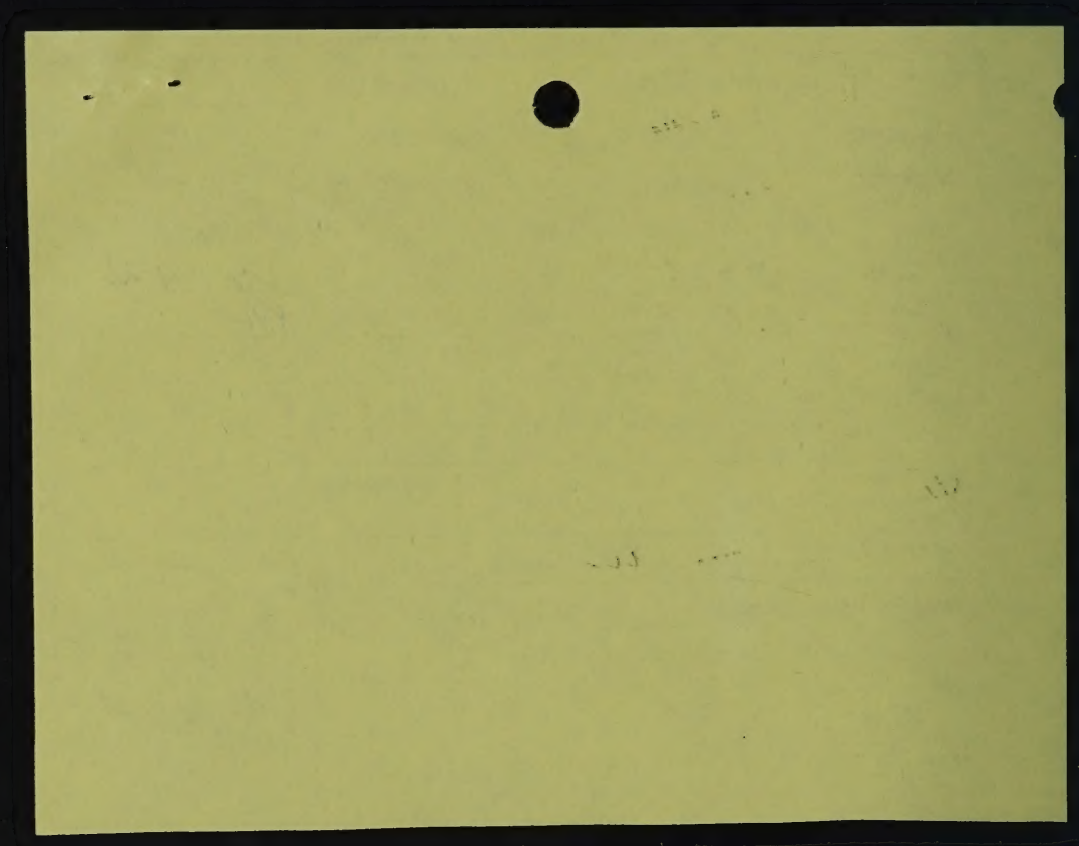
File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-Mar2007.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

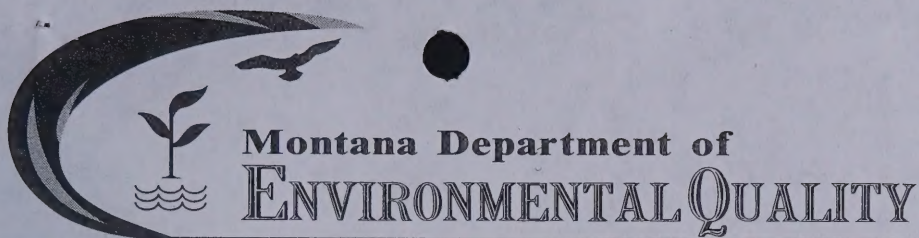
MAILED

Correspondence Slip**Project ID:** _____**Requested:** 4-26**Needed By:** 4-26**Originator:** mlh**Org(s)/Mail Code:** _____REVIEW
ROUTING

Name	Task	Initial/Date
<u>James</u>		<u>JP 4-26</u>
<u>Pat</u>		<u>PL 1</u>
		<u>1</u>
		<u>1</u>

Mail original via:☒ Regular ☐ Certified ☐ Registered ☐ FedEx**Fax to addressee at:****Proof Path:** G:\WUT\see letter**Mail copy of enclosures
to CC's?** Y N**Special Instructions:****Copies of enclosures
for file needed?** Y N**Copy of letter for file
needed?** ☒ Y N





Montana Department of
ENVIRONMENTAL QUALITY

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

February 8, 2007

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
REVIEW OF SEPTEMBER AND NOVEMBER 2006 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the Unified Disposal District Class II landfill's September and November 2006 methane monitoring report. The results are within regulatory limits and consistent with previous reports. The Department agrees that no action is required at this time.

As a reminder, the Administrative Rules of Montana (ARM) 17.50.511(1)(p) requires that the information on methane gas test results be placed in the operating record "as it becomes available." Further, ARM 17.50.511(1)(q) requires that the Department be notified whenever information is placed in the operating record and be supplied with a copy of that information. Therefore, for your facility, methane test results must be submitted to the Department on a quarterly basis.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUTSWS\Methane\Report Replies\Hill\Hill-CH4-SepDec2006.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

Correspondence Slip

Project ID: _____

Requested: 2-7-07Needed By: 2-8-07Originator: mes

Org(s)/MailCode: _____

REVIEW
ROUTING

Name

Task

Initial/Date

DanellRickJamesreviewDS, 2/7/07RL, 2-8-07DR, 2/8

Mail original via:

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Fax to addressee at: _____

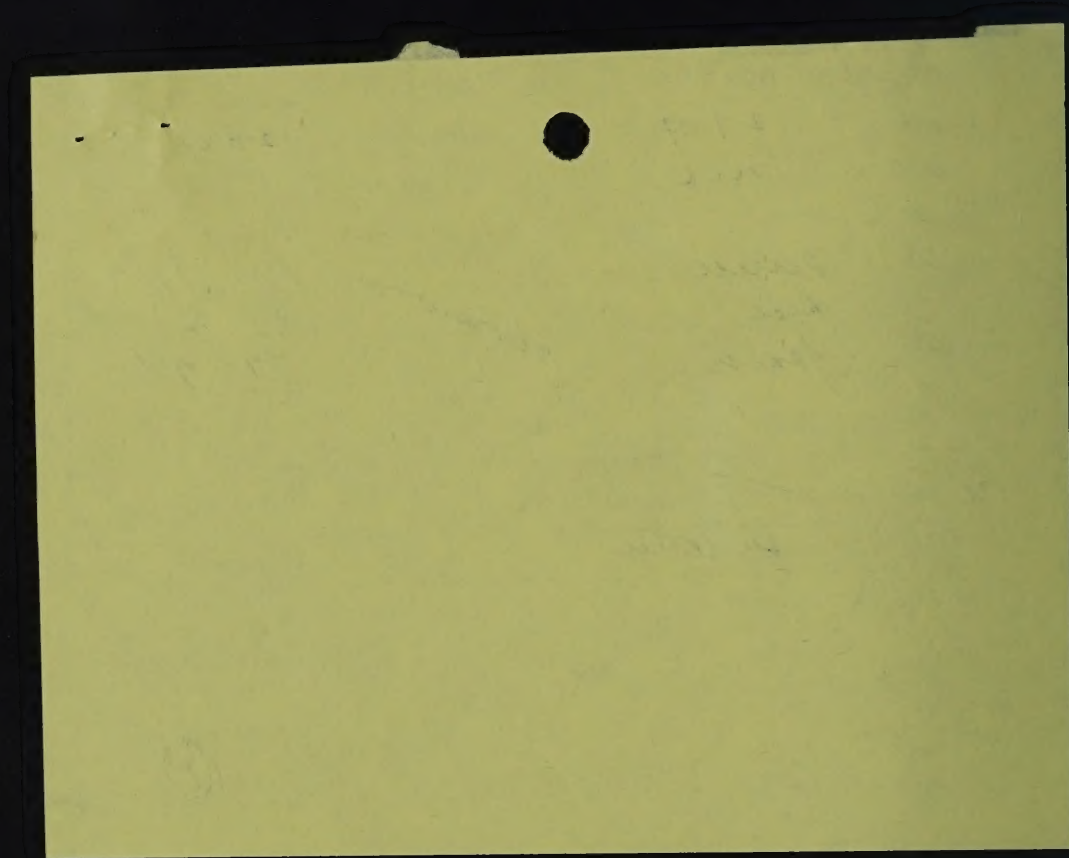
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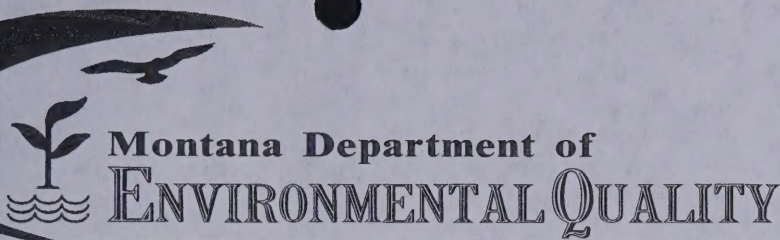
Special Instructions:

Mail copy of
enclosures

to CC's? Y N

Copies of enclosures
for file needed? Y NCopy of letter for file
needed? ☒ N





MAILED

7-20-06 JH

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

July 20, 2006

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
APPROVAL OF EXTENSION REQUEST

Dear Mr. Vincent:

The Department has reviewed the request submitted by Mr. Barry Damschen of Barry Damschen Consulting, LLC, regarding a 90-day extension to the Department's request for an updated methane monitoring plan for the Unified Disposal District Class II landfill. The extension request has been approved. The updated methane monitoring plan should be submitted to the Department by November 6, 2006.

If you have any questions or comments, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4plan-ext-aprvl.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

MAILED

Correspondence Slip

Project ID: _____

Requested: 7-19-06

Needed By: 7-20-06

Originator: men

Org(s)/MailCode: _____

REVIEW
ROUTING

Name

Task

Initial/Date

Daniel

Das, 7/19/06

Pat

ETC, 7/20

Rich

review

James

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

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see letter

Special Instructions:

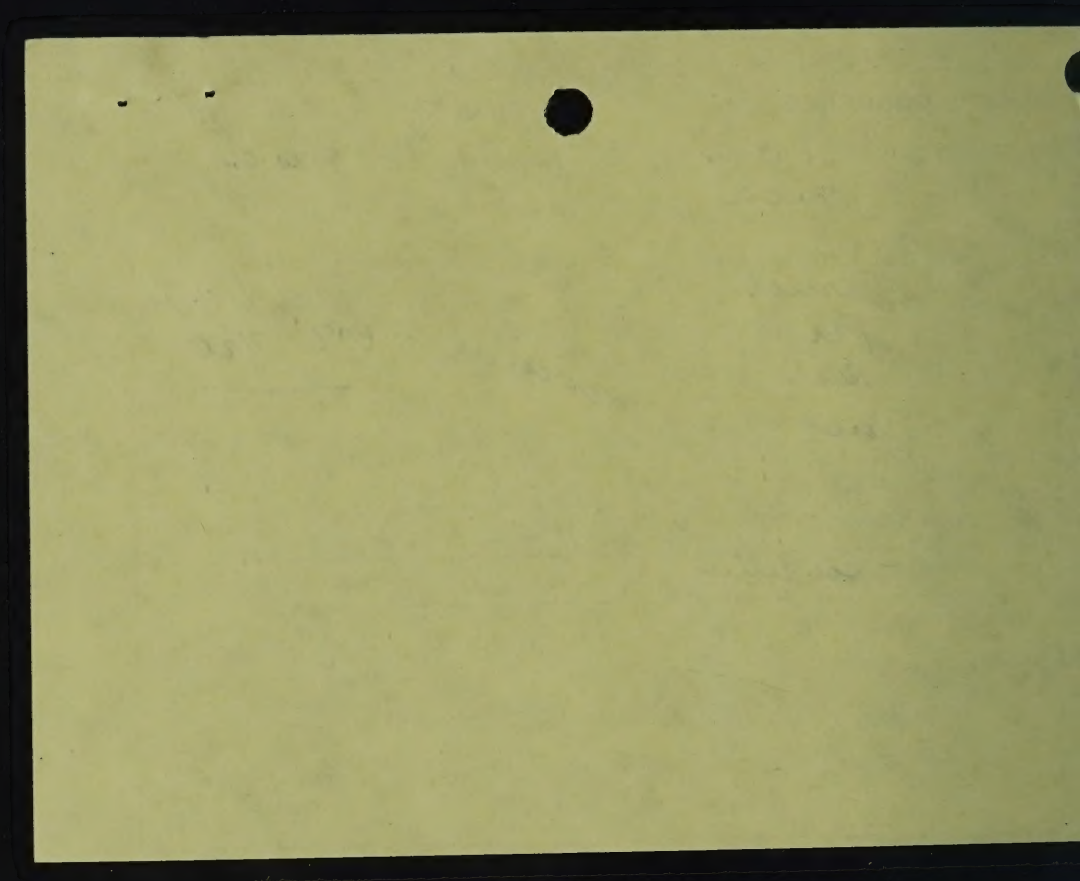
Mail copy of
enclosures

to CC's? Y N

Copies of enclosures

for file needed? Y N

Copy of letter for file
needed? ☒ N





Montana Department of
ENVIRONMENTAL QUALITY

MAILED
8-2-06

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

August 7, 2006

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389
REVIEW OF FEBRUARY AND MAY 2006 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the above noted methane monitoring results, hand-delivered to the Department by Mr. Barry Damschen on July 31, 2006, for the Unified Disposal District Class II landfill in Havre. The results are consistent with previous reports and within regulatory limits.

If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class II\License#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-FebMay06.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

PAID

Correspondence Slip**Project ID:** _____Requested: 8/4/06Needed By: 8/7/06Originator: meb

Org(s)/Mail Code: _____

REVIEW
ROUTING

Name

Task

Initial/Date

DarrellreviewDas, 8/4/06RickRT, 8-7-06James4/

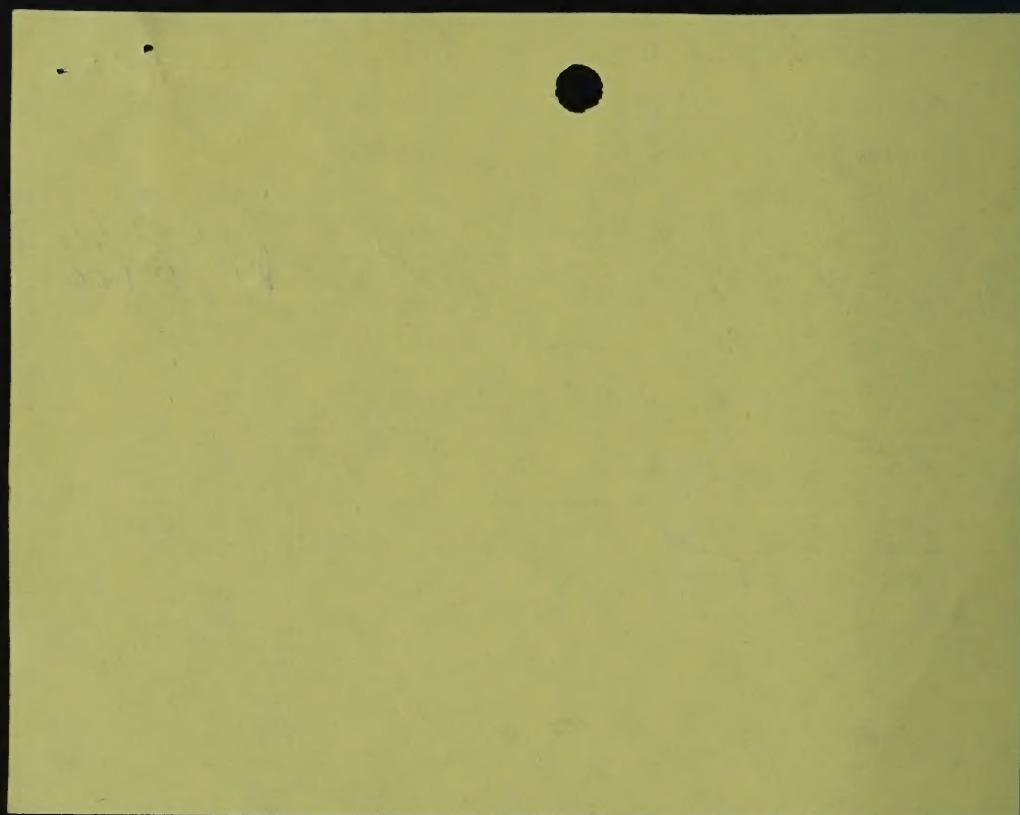
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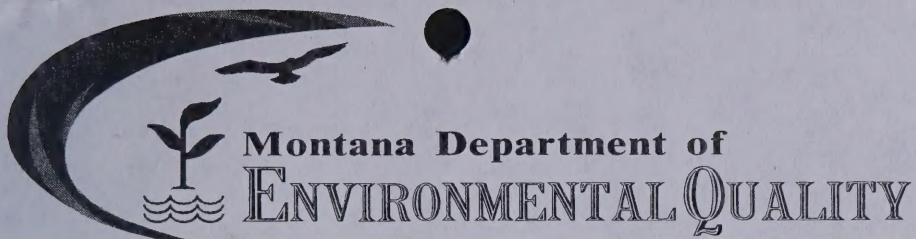
☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at: _____

Proof Path: G:\WUT_____

Mail copy of enclosures
to CC's? Y N**Special Instructions:**Copies of enclosures
for file needed? Y NCopy of letter for file
needed? ☒ Y ☐ N





MAILED
5-18-06 gk

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

May 9, 2006

Mr. Clay Vincent
UNIFIED DISPOSAL DISTRICT
315 4th Street
Havre, MT 59501-3923

RE: **UNIFIED DISPOSAL DISTRICT LANDFILL – LICENSE #389**
REVIEW OF 2005 METHANE MONITORING RESULTS

Dear Mr. Vincent:

The Department has reviewed the 2005 methane monitoring results for the Unified Disposal District Class II landfill. As a reminder, in accordance with the Administrative Rules of Montana, Section 17.50.511, results of the quarterly methane monitoring at the facility must be submitted to the Department on a quarterly basis.

The Department notes the exceedances of methane gas concentrations in wells MG-1 and MG-2. To ensure that the lower explosive limit (LEL) of the landfill gas is not exceeded downgradient of MG-1, the facility will be required to monitor the soil borrow area located north of well MG-1 when personnel are working in the area to determine whether landfill gas has accumulated and is present at levels exceeding the LEL. Additionally, an updated methane monitoring plan must be submitted within 90-days of the date of this letter in accordance with ARM 17.50.511, and should incorporate the procedures for performing landfill gas monitoring in the soil borrow area as well as the monitoring points in the facility gate house and facility shop buildings. The updated methane monitoring plan should also include the methane monitoring well construction details and a map that provides the location of the methane monitoring wells as well as the location of the monitoring points within the facility structures and buildings.

Please direct all future correspondence related to methane monitoring to my attention. If you have any questions regarding this review, please feel free to contact me directly at the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Solid Waste Section.

Respectfully,

Mary Louise Hendrickson
Environmental Science Specialist
Solid Waste Regulatory Program
Phone: 406-444-1808; Fax: 406-444-1374
Email: mhendrickson@mt.gov

File: Hill County County\Unified Disposal District Class IILicense#389\Methane Monitoring
Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill-CH4-050906.doc
cc: Mr. Barry Damschen, Barry Damschen Consulting, LLC, 5531 York Road, Helena, MT 59602

MAILED

Correspondence Slip

Project ID: _____

Requested: 5-8-06

Needed By: 5-9-06

Originator: mlh

Org(s)/Mail Code: _____

REVIEW
ROUTING

Name

Task

Initial/Date

Darrell

review

DL 5/8/06

Rick

review

RT 5-9-06

James

review

1

review

review

1

Mail original via:

☒ Regular ☐ Certified ☐ Registered ☐ FedEx

Fax to addressee at

Proof Path: G:\WUT\

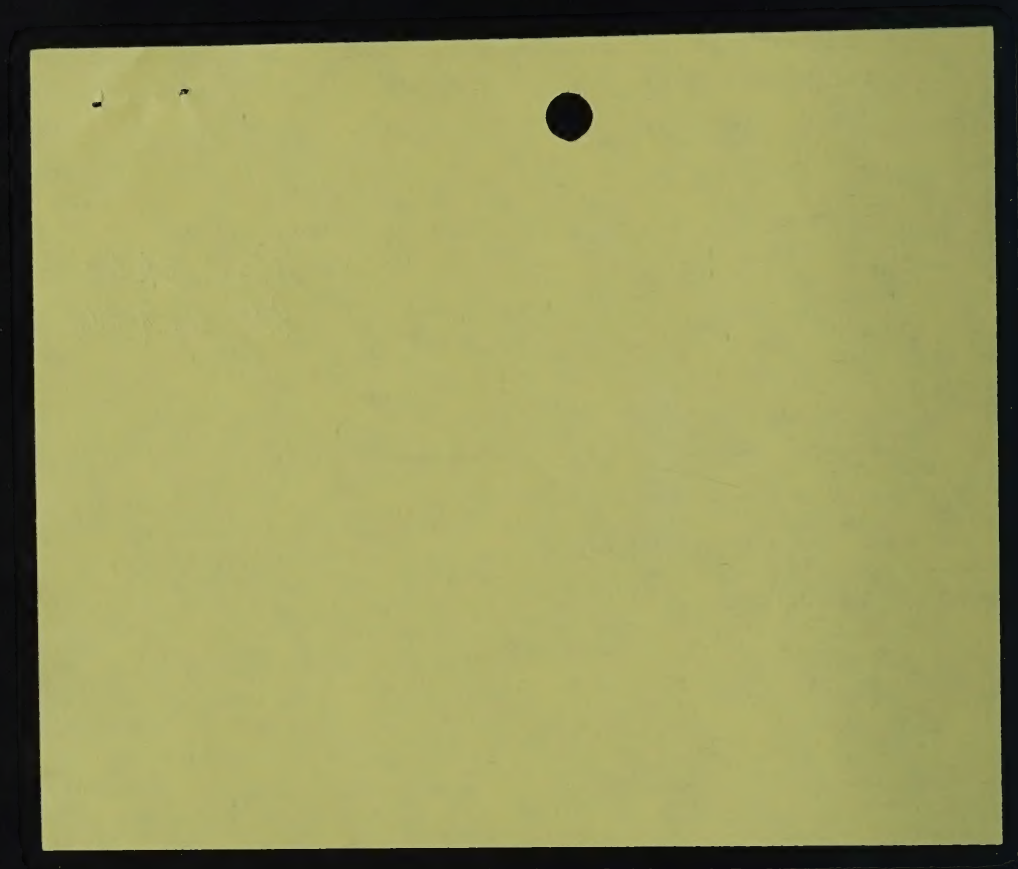
per letter

Mail copy of enclosures to CC's? Y N

Special Instructions:

Copies of enclosures for file needed? Y N

Copy of letter for file needed? ☒ Y ☐ N





Montana Department of
ENVIRONMENTAL QUALITY

MAILED

th 2-16-05

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.state.mt.us

February 15, 2005

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street
Havre, MT 59501-3923

RE: Methane Monitoring Report, Unified Landfill, License Number 389

Dear Clay:

I have reviewed the report and concur with the recommendations of Mr. Damschen. Well MG-1 is not at the point of compliance and is too close to the refuse. If a new cell is constructed north of the current cell, the well should be relocated.

We would like to remind you of a record-keeping requirement for gas monitoring. According to ARM 17.50.511(1)(p) information on methane gas test results must be placed in the operating record "as it becomes available." ARM 17.50.511(1)(q) requires that the Department be notified whenever information is placed in the operating record and supplied with a copy. This means that test results must be submitted on a quarterly basis or as the tests are performed.

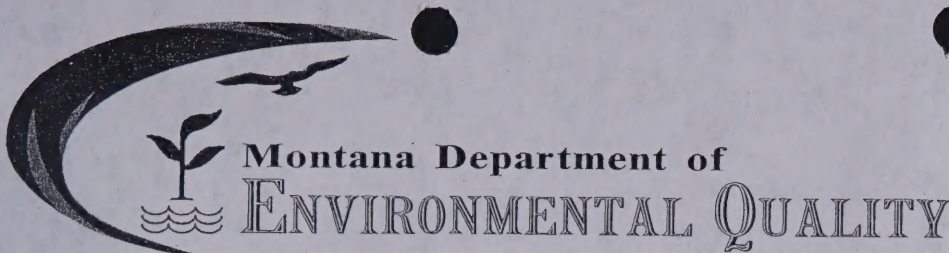
If I can be of further assistance in this matter, please feel free to contact me. My direct phone line is 406-444-5294 and my email address is pcrowley@state.mt.us. The Solid Waste Regulatory Program is a part of the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Waste Management Section.

Sincerely,

F. Patrick Crowley
Solid Waste Regulatory Program Manager

Path: G:\WUT\SWS\Methane\Report Replies\Hill\Hill0205.doc

MAILED



Filed
MAILED
1-17-25 JR

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

February 10, 2005

Mr. Barry Damschen, P.E.
5531 York Road
Helena, MT 59602

Dear Barry:

The Solid Waste Program has received the Methane Monitoring Reports for the following facilities:

#5, Wolf Point,
#389, Unified,
#82, Shelby,
#17, Sheridan County
#291, Sanitation Inc.,
#372, Rosebud County,
#314, Northern,
#329, Lake County,
#348, Big Horn County,
#4, Dawson County,
#299, Daniels County,
#306, Beaverhead County

They have been assigned to our staff for review. Should you have any questions, please contact me at 406-444-5345, or at rithompson@mt.gov.

Sincerely,

Rick Thompson, Supervisor
Waste Management Section
Waste and Underground Tank Management Bureau

MAILED

U.S. DEPARTMENT OF
ENVIRONMENTAL QUALITY

Environmental Protection Agency

U.S. DEPARTMENT OF ENVIRONMENTAL QUALITY, WASHINGTON, D.C. 20460

February 10, 1970

Mr. J. Edgar Hoover, FBI

FBI, Washington, D.C.

Dear Mr. Hoover:

Enclosed

The enclosed report contains information regarding the following topics:

1. Water Pollution

2. Air Pollution

3. Noise Pollution

4. Land Use Planning

5. Solid Waste Management

6. Hazardous Materials

7. Environmental Quality

8. Environmental Policy

9. Environmental Law

10. Environmental Science

This report was prepared by the Environmental Protection Agency, Washington, D.C. It is being furnished to you for your information and use.

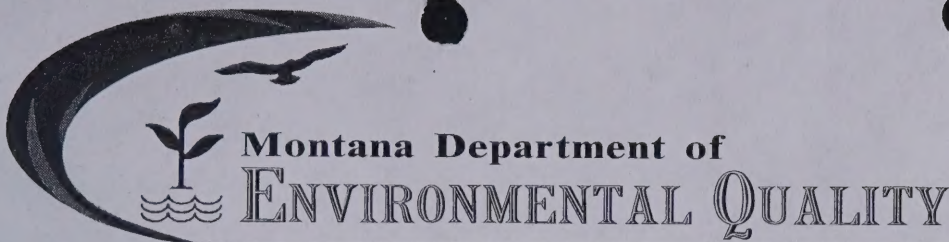
Sincerely,

Richard M. Nixon
President of the United States

John A. Edgar, Jr.
Director, Federal Bureau of Investigation

Enclosure

Very truly yours,
John A. Edgar, Jr.



Hand
MAILED
2-10-25 JH

Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

February 9, 2005

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street
Havre, MT 59501-3923

RE: Methane Monitoring Report, Unified Landfill, License Number 389

Dear Clay

The Solid Waste Program received your 2004 methane monitoring results for the Unified Landfill on January 18, 2005. It was assigned to Pat Crowley for review. I anticipate that you will receive a response from Mr. Crowley within 10 days.

If you have any questions on the review status or the results, please contact Mr. Crowley directly at 406-444-5294, or by email at pcrowley@mt.gov. If you have any other issues or questions, please contact me at 406-444-5345, or at rithompson@mt.gov.

Sincerely

Rick Thompson, Supervisor
Waste Management Section
Waste and Underground Tank Management Bureau

MAILED

Department of
ENVIRONMENTAL QUALITY

January 1972

Mr. J. Lee Brown
United States District Court
200 South Street
Harrisburg, PA 17101

RE: **William Thompson Brown, Defendant; Brown, Plaintiff.**

Dear Sir:

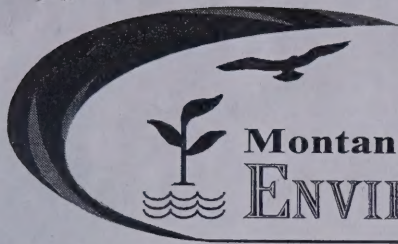
The 1968 Williams Brown was received from 100% cotton monitoring on the 1st of January 1972. It was assigned to the 1st of January for the 1st of January. It was assigned to the 1st of January for the 1st of January.

It has been my pleasure to review the 1st of January for the 1st of January. It has been my pleasure to review the 1st of January for the 1st of January. It has been my pleasure to review the 1st of January for the 1st of January.

Sincerely,

John Thompson

John Thompson, Supervisor
Water Management Section
Water and Land Management Division



Montana Department of
ENVIRONMENTAL QUALITY

Judy Martz, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.state.mt.us

February 13, 2004

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street
Havre, MT 59501-3923

RE: Methane Monitoring Report, Unified Landfill, License Number 389

Dear Clay:

I have reviewed the report and concur with the recommendations of Mr. Damschen. Well MG-1 is not at the point of compliance and is too close to the refuse. If a new cell is constructed north of the current cell, the well should be relocated.

If I can be of further assistance in this matter, please feel free to contact me. My direct phone line is 406-444-5294 and my email address is pcrowley@state.mt.us. The Solid Waste Regulatory Program is a part of the Permitting and Compliance Division, Waste and Underground Tank Management Bureau, Waste Management Section.

Sincerely,

F. Patrick Crowley
Solid Waste Regulatory Program Manager

Path: G:\CSB\S w s\Methane\Report Replies\Hill0204.doc

INITIALS FPC DATE 2/12/04
SW OUTGOING CORRESPONDENCE

NEW APPLICATION Initial / Date
Janet H _____
Rick T _____

INSPECTIONS Initial / Date
Pat C _____
Janet H _____
Rick T _____

CLOSURES Initial / Date
Janet H _____
Rick T _____

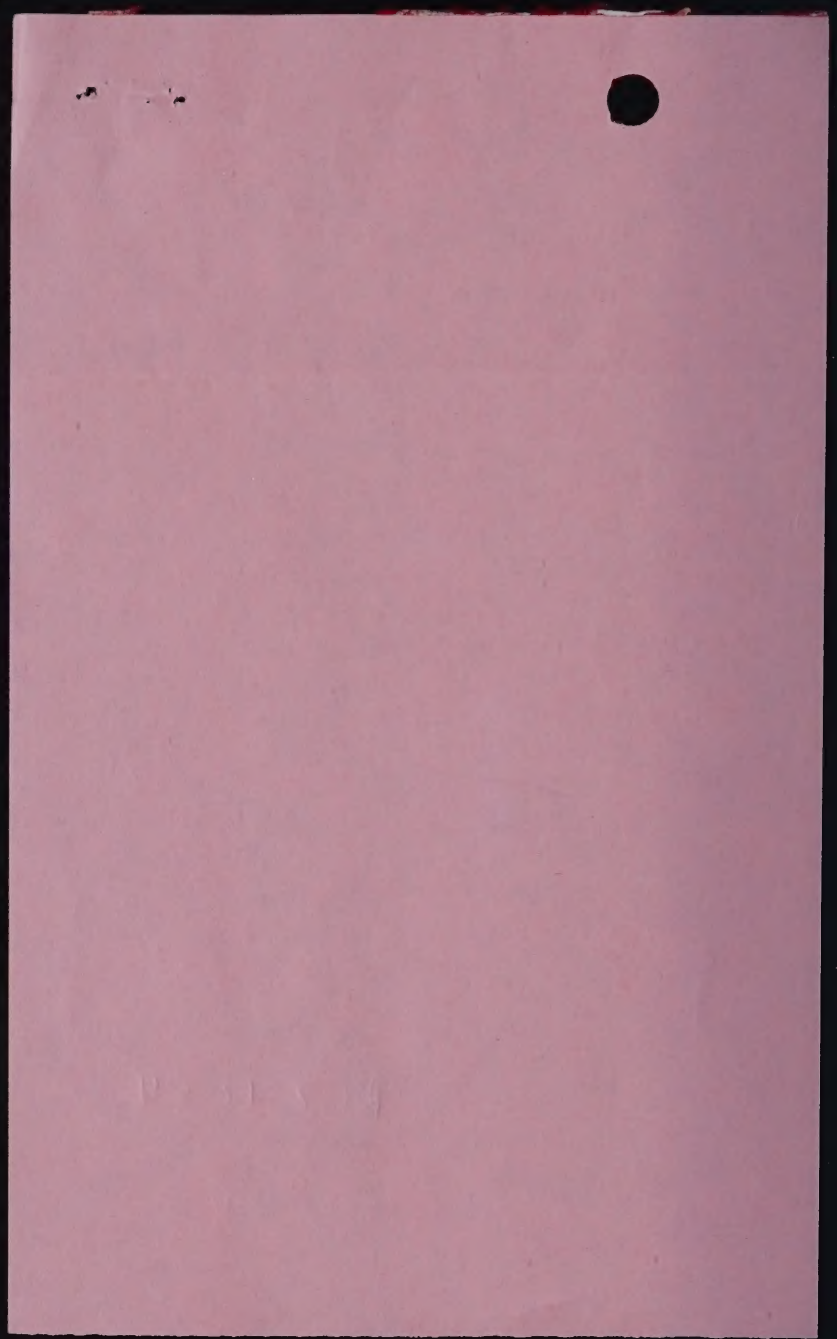
FEES Initial / Date
Janet H _____
Rick T _____

COMPLAINTS Initial / Date
Pat C _____
Janet H _____
Rick T _____

GROUND WATER Initial / Date
Pat C _____
Janet H _____
Rick T _____

GEN CORRESPONDENCE Initial / Date
Janet H _____
Rick T RT 2-12-04

MISCELLANEOUS Initial / Date





Montana Department of
ENVIRONMENTAL QUALITY

MAILED
2-12-04 *JK*

Judy Martz, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.state.mt.us

February 10, 2004

Mr. Clay Vincent
Unified Disposal District
315 Fourth Street
Havre, MT 59501-3923

RE: Methane Monitoring Report, Unified Landfill, License Number 389

Dear Clay:

The Solid Waste Program received your 2003, methane monitoring results for the Unified Landfill on February 9, 2004. It was assigned to Pat Crowley for review. I anticipate that you will receive a response from Mr. Crowley within 10 days.

If you have any questions on the review status or the results, please contact Mr. Crowley directly at 406-444-5294, or by email at pcrowley@state.mt.us. If you have any other issues or questions, please contact me at 406-444-5345, or at rithompson@state.mt.us.

Sincerely

Rick Thompson, Supervisor
Waste Management Section
Waste and Underground Tank Management Bureau

MAILED

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

Proof The

DATE:

At July 21, 1984

1.

Jan JA

2.

Roger pc

3.



Approval



Comment



Necessary Action



Note and Return



Note and File



Investigate



Prepare reply



Signature



See Me



As requested



For your information



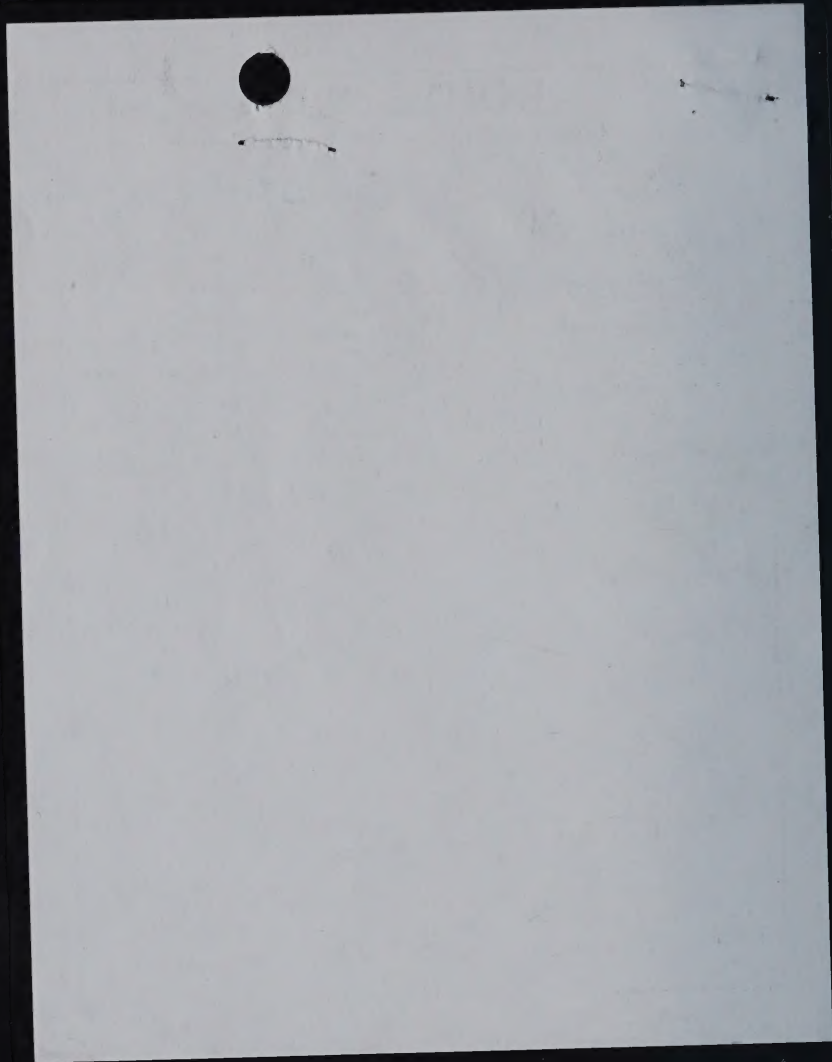
Per Conversation

REMARKS:

Mailed 7-22

FROM:

Pat



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Waste Management Division

Solid Waste Program

406/444-1430

FAX # (406) 444-1499



STATE OF MONTANA

OFFICE 2209 PHOENIX AVE.
LOCATION: HELENA, MONTANA

MAILING PO BOX 200901
ADDRESS: HELENA, MT 59620-0901

July 22, 1994

Larry Broere, Manager R.S.
Unified Disposal District
Hill County Courthouse
315 4th Street
Havre, MT 59501

Dear Larry:

Please consider this written approval of the methane monitoring plan as submitted to the Department on May 5, 1994, by Damschen and Associates for the Unified District's Landfill near Havre. Please understand that this plan may have to be upgraded as the landfill expands or in the event of detection of methane in the probes located closer to the waste than the property boundary. The plan as presented is sufficient for the current licensed area.

As Mr. Siegmund stated in the proposed plan, the hole depths will be based on the proposed depth of waste adjacent to the probes, and screened taking into account potential methane pathways. An as-built drawing showing location of the probes must be supplied to the Department along with construction details and logs for the probes. Please also inform the Department of the model of the meter finally selected for use at the landfill, calibrate it with a methane gas mixture, and operate it according to the manufacturer's instructions. Keys to the permanent methane probes should be kept with the landfill's operation record so that they are available to the Department during landfill inspections.

If I can be of further help in this matter, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, reading "F. Patrick Crowley".

F. Patrick Crowley
Solid Waste Regulatory Lead

cc: Damschen and Associates, P.O. Box 4817, Helena, MT 59604

File: Unified Landfill, Hill County
Path: H:\cb5403\wp\landfill\methane\ Havre.ok



BARRY DAMSCHEN CONSULTING, LLC *Hill #389*

Engineering • Solid Waste Management

January 20, 2021

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear Mike:

Enclosed please find a summary of the Year 2020 methane monitoring results at the closed Unified Disposal landfill in Havre. Significant amounts of methane were detected over the year in MG-1. I should also note that MG-2 became plugged six years ago and we were able to unplug MG-2A; but not MG-2B. We recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Amy Ferguson

Enclosure

**UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2/25/20		2.9	0	0		0.1	CO ₂
		LOCKED	2.2	0	0	PLUGGED	0	Methane
			16.9	18.6	18.7		18.8	Oxygen
2	6/4/20		10.2	34.4	0		0	CO ₂
		LOCKED	14.4	53.1	0	PLUGGED	0	Methane
			12.5	1.0	18.0		18.0	Oxygen
3	9/15/20		5.7	21.5	0		0	CO ₂
		LOCKED	0.9	20.1	0	PLUGGED	0	Methane
			14.3	5.1	17.5		17.5	Oxygen
4	11/20/20		2.7	0	0		0	CO ₂
		LOCKED	2.0	0	0	PLUGGED	0	Methane
			16.5	18.0	18.0		17.9	Oxygen

Methane Monitoring Field Data

1111

Facility: Unified Disposal District Landfill (C.I. Sed)

License #: 389

Date: 9-15-20 Time: 1430

Sampler: B. Daniels

Air Temperature: 69°

Other Weather Conditions: SMY

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	0.9 0.9	5.7	14.3	
1B	20.1	21.5	5.1	
2A	0	0	17.5	
3	0	0	17.5	
2B	plugged			

RECEIVED

NOV 04 2020

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

NOTES:



SCANNED



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

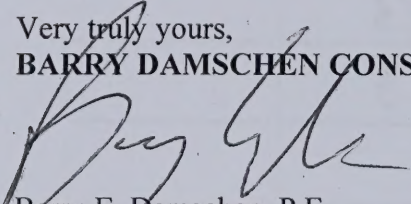
November 2, 2020

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear Mike:

Please find enclosed my third quarter (2020) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

RECEIVED

NOV 04 2020

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU



December 19, 2019

Ms. Amy Ferguson
CLOSED UNIFIED DISPOSAL DISTRICT
315 Fourth Street Courthouse
Havre, MT 59501

**RE: UNIFIED DISPOSAL DISTRICT CLASS II LANDFILL
MAJOR CLASS II FACILITY - LICENSE #389
JULY 2019 METHANE MONITORING RESULTS**

Dear Ms. Ferguson:

The July 2019 report has been reviewed and the results are within regulatory limits.

If you have any questions please contact me.

Sincerely,

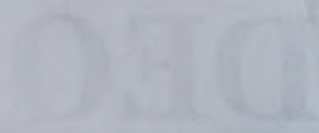
A handwritten signature in black ink, appearing to read "Mike Eder", is written over a light blue horizontal line.

Mike Eder
Hydrogeologist
Solid Waste Section
phone: 406-444-1434; fax: 406-444-1373
Email: mike.eder@mt.gov

cc: Barry Damschen, Damschen Consulting, LLC., 5531 York Road, Helena, MT 59602



Barry Davis Consulting



December 14, 2013

December 14, 2013

Mr. [Name] [Address]
[Address]
[Address]
[City, State, Zip]
[Phone Number]
[Email Address]

Dear Mr. [Name]:

I am writing to you regarding the [Project Name] project. I am pleased to inform you that the project is currently on track and we are making good progress. We will be providing you with a detailed report on the project status in the near future.

Sincerely,
[Signature]
[Name]
[Title]

Barry Davis Consulting
[Address]
[City, State, Zip]
[Phone Number]
[Email Address]



BARRY DAMSCHEN CONSULTING, LLC

Hill #389

Engineering • Solid Waste Management

February 21, 2023

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

RECEIVED

FEB 27 2023

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Mike:

Enclosed please find a summary of the Year 2022 methane monitoring results at the closed Unified Disposal landfill in Havre. Significant amounts of methane were detected over the year in MG-1. This has been the case for many years, and it can be expected since the well is within a few feet of the edge of the existing waste. I should also note that MG-2 became plugged eight years ago and we were able to unplug MG-2A; but not MG-2B. We recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Brad Tommerup

Enclosure

THE DANISH CONSUL IN NEW YORK

Consul General, New York, N.Y.

Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 10th inst.

and in reply to inform you that the same has been forwarded to the proper authorities.

I am, Sir, very respectfully, your obedient servant,

Consul General, New York, N.Y.

Very truly yours,

Consul General, New York, N.Y.

Enclosed for you are the following documents:

1. A copy of the report of the Danish Commission on the subject of the case.

2. A copy of the report of the Danish Commission on the subject of the case.

3. A copy of the report of the Danish Commission on the subject of the case.

4. A copy of the report of the Danish Commission on the subject of the case.

5. A copy of the report of the Danish Commission on the subject of the case.

6. A copy of the report of the Danish Commission on the subject of the case.

7. A copy of the report of the Danish Commission on the subject of the case.

8. A copy of the report of the Danish Commission on the subject of the case.

9. A copy of the report of the Danish Commission on the subject of the case.

10. A copy of the report of the Danish Commission on the subject of the case.

11. A copy of the report of the Danish Commission on the subject of the case.

12. A copy of the report of the Danish Commission on the subject of the case.

13. A copy of the report of the Danish Commission on the subject of the case.

14. A copy of the report of the Danish Commission on the subject of the case.

15. A copy of the report of the Danish Commission on the subject of the case.

16. A copy of the report of the Danish Commission on the subject of the case.

17. A copy of the report of the Danish Commission on the subject of the case.

18. A copy of the report of the Danish Commission on the subject of the case.

19. A copy of the report of the Danish Commission on the subject of the case.

20. A copy of the report of the Danish Commission on the subject of the case.

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2/9/22		1.2	7.3	0		0	CO ₂
		LOCKED	1.8	6.8	0	PLUGGED	0	Methane
			15.6	10.6	15.6		15.8	Oxygen
2	5/24/22		12.7	30.3	0		0	CO ₂
		LOCKED	25.0	40.6	0	PLUGGED	0	Methane
			5.3	0.3	15.9		15.9	Oxygen
3	9/14/22		16.9	0	0		0	CO ₂
		LOCKED	4.6	0	0	PLUGGED	0	Methane
			6.0	15.1	15.4		15.4	Oxygen
4	10/18/22		23	39	0		0	CO ₂
		LOCKED	69	60	0	PLUGGED	0	Methane
			0.6	0.2	15.9		15.4	Oxygen

LANDFILL DISTRICT CLOSURE MONITORING RESULTS
(All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3
1	10/25	LOCKED	1.5	1.5	0		0
			1.5	1.5	0	PLUGGED	0
			12.5	10.0	15.0		12.5
2	10/25	LOCKED	12.5	10.5	0		0
			20.0	40.0	0	PLUGGED	0
			2.5	0.5	12.0		12.0
3	09/15	LOCKED	12.0	0	0		0
			1.5	0	0	PLUGGED	0
			0.0	12.1	12.0		12.0
4	10/25	LOCKED	0.0	0.0	0		0
			0.0	0.0	0	PLUGGED	0
			0.0	0.5	12.0		12.0

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

309

⊗ closed - Unified Disposal, Hill County

February 21, 2022

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

RECEIVED

MAR 08 2022

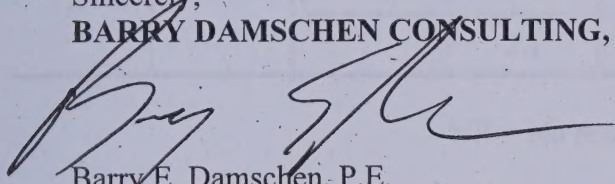
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Mike:

Enclosed please find a summary of the Year 2021 methane monitoring results at the closed Unified Disposal landfill in Havre. Significant amounts of methane were detected over the year in MG-1. I should also note that MG-2 became plugged seven years ago and we were able to unplug MG-2A; but not MG-2B. We recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC


Barry E. Damschen, P.E.
Project Manager

cc: Amy Ferguson

Enclosure

② closed - limited disposal, full landfill

RECEIVED

MAR 08 2022

Dept. of Environmental Quality
Waste & Landfill
Tank Management Bureau

February 21, 2022

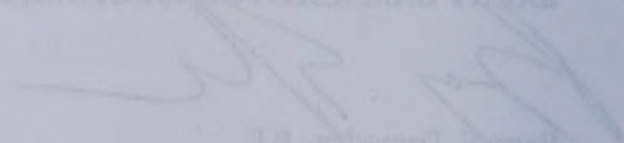
Attn: Mr. [Name]
Montana Department of Environmental Quality
P.O. Box 200001
Helena, MT 59620

Dear Mr. [Name]:

Enclosed please find a summary of the Year 2021 methane monitoring results at the closed
limited disposal landfill in [Location]. Significant amounts of methane were detected over the year
in M-1. I should also note that M-2 became plugged every year ago and we were able to
plug M-2, but not M-3. We recommend to continue monitoring the site as a quarterly
basis.

If you have any questions or require any additional information, please do not hesitate to contact
us.

Sincerely,
BAKRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

cc: Amy Ferguson

Enclosure

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2/8/21		NR	NR	NR		NR	CO ₂
		LOCKED	NR	NR	NR	PLUGGED	NR	Methane
			NR	NR	NR		NR	Oxygen
2	6/10/21		6.5	36.3	0		0	CO ₂
		LOCKED	17.8	55.9	0	PLUGGED	0	Methane
			12.3	0.4	16.7		16.4	Oxygen
3	7/20/21		12.1	35.7	0		0	CO ₂
		LOCKED	36.0	52.8	0	PLUGGED	0	Methane
			8.2	0.6	16.6		16.9	Oxygen
4	10/6/21		20.2	39.3	0		0	CO ₂
		LOCKED	70.1	60.3	0	PLUGGED	0	Methane
			2.1	0.3	16.4		16.3	Oxygen

NR = No reading due to extreme cold

UNITED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
(All results in percent of total sample)

Gas	Date	Other	MG-1A	MG-1B	MG-2A	MG-2B	MG-3
1	2/20/01	LOCKED	NR	NR	NR	NR	NR
		LOCKED	NR	NR	NR	PLUGGED	NR
			NR	NR	NR		NR
2	2/10/01	LOCKED	17.8	22.9	0	PLUGGED	0
			15.7	0.4	16.7		16.4
							0
3	2/20/01	LOCKED	16.0	25.8	0	PLUGGED	0
			7.7	0.8	16.6		16.2
							0
4	10/20/01	LOCKED	20.7	60.1	0	PLUGGED	0
			2.1	0.1	16.4		16.7
							0

NR = no reading due to extreme cold

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

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FEB 04 2022

METHANE MONITORING FIELD DATA SHEET

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility: Closed Unified Disposal District Landfill License #: 389

HILL Co

Date: 10-6-21 Time: 1040

Sampler: B DAMSCHEN

ML HENDRICKSON

Air Temperature: 65°

Other Weather Conditions: overcast, calm

SCANNED

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	70.1	20.2	20.2 2.1	
1B	60.3	39.3	0.3	
#3	0	0	16.3	
2A	0	0	16.4	

Notes:

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

January 7, 2022

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FEB 04 2022

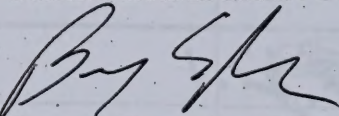
Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

**Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau**

Dear Mike:

Please find enclosed my fourth quarter (2021) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

METHANE MONITORING FIELD DATA SHEET

Hill

Facility: Closed Unified Disposal District Landfill License #: 389

Date: 2-9-2022 Time: 1025 Sampler: B. DAMSCHEN

Air Temperature: 46°

Other Weather Conditions: windy, cloudy, cold

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	1.8	1.2	15.6	
1B	6.8	7.3	10.6	
2A	0	0	15.6	
3	0	0	15.8	

Notes:

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (C.I.S.C.)

License #: 389

Hill

Date: 7-20-21

Time: _____

Sampler: B. DAMSCHEN

ML HENDERICKSON

Air Temperature: _____

Other Weather Conditions: overcast, windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	36.0	12.1	8.2	
#1B	52.8	35.7	0.6	
#2A	0	0	16.6	
#3	0	0.1	16.9	

NOTES:

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SEP 29 2021

SCANNED

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Hill Co.

Date: 11-20-20

Time: 030

Sampler: B. Damsch

Air Temperature: 13°

Other Weather Conditions: sunny - clear cold

Location	Methane	Carbon Dioxide	Oxygen	Comments
#3	0	0	17.9	
#2				
#1A	2.0	2.7	16.5	
1B	0	0	18.0	
H 2A	0	0.1	18.0	
2B	plugged			

SCANNED

NOTES:

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DEC 28 2020

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BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

RECEIVED

JUL 27 2022

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

METHANE MONITORING FIELD DATA SHEET

Facility: Closed Unified Disposal District Landfill License #: 389

Date: 5/24/20 Time: 0915 Sampler: ML Hendrickson

Air Temperature: 58°

Other Weather Conditions: cloudy, partly sunny, slight breeze
windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
3	0	0.1	15.9	
2A	0	0	15.9	
1A	25.0	12.7	5.3	
1B	40.6	30.3	0.3	

Notes:

RECEIVED

JUL 27 2022

METHANE MONITORING FIELD DATA SHEET

Dept. of Enviro Quality
Waste & Underground
Tank Management Bureau

Facility: Central Illinois Disposal District Landfill License #: 399

Date: 8/2/22 Time: 0915 Sampler: Mr. Henderson

C Stewart

Air Temperature: 58°

Other Weather Conditions: cloudy, partly sunny, slight breeze

Windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
3	0	0.1	15.7	
2A	0	0	15.7	
1A	22.0	15.7	2.3	
1B	10.0	30.3	0.3	

Notes:

RECEIVED



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

October 21, 2022

Mike Eder
Montana Department of Environmental Quality
Waste and Underground Tank Management Bureau
Solid Waste Program
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED
NOV 22 2022
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Mike:

Please find enclosed my third quarter (2022) field sheets for the twenty landfills which I monitor for methane. Please do not hesitate to call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures

BARRY DAMICHEN CONSULTING, LLC

Engineering • Solid Waste Management

METHANE MONITORING FIELD DATA SHEET

Facility: Closed Unified Disposal District Landfill License #: 389

Date: 9-14-22 Time: 1100 Sampler: B. Damich

Air Temperature: 60°

Other Weather Conditions: Rainy

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	46.1	16.9	26.0	
1B	0	0	15.1	
2B	0	0	15.4	
3	0	0.1	15.4	

Notes:

WETLAND MONITORING FIELD DATA SHEET

Project: Chesapeake Bay Bridge/Tunnel Location: 202
 Date: 9-14-95 Time: 11:00 Sampler: B. Davis
 Air Temperature: 60°
 River Water Temperature: 60°

Location	Method	Carbon Dioxide	Oxygen	Comments
10	1.41	10.7	0.20	
15	0	0	1.21	
20	0	0	1.24	
25	0	0.1	1.24	

Notes:

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (CLSD)

License #: 389

Date: 6-4-20 Time: 800

Sampler: B. Damsch

Air Temperature: 63°

Other Weather Conditions: cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	14.4	10.2	12.5	
1B	53.1	34.4	1.0	
#3	0	0	18.0	
#2A	0	0	18.0	
2B	plugged			

NOTES:

WLS

ES

SCANNED

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JUL 28 2020

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed) License #: 389
 Date: 2-25-20 Time: 900 Sampler: B. Danscher
 Air Temperature: 25°
 Other Weather Conditions: Sunny - calm

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	2.2	2.9	16.9	
B	0	0	18.6	
#2A	0	0	18.7	
2B	Plugged			
#3	0	0.1	18.8	

NOTES:

COUNTY Hill

FACILITY & #: 389

CLOSURE LANDFARM

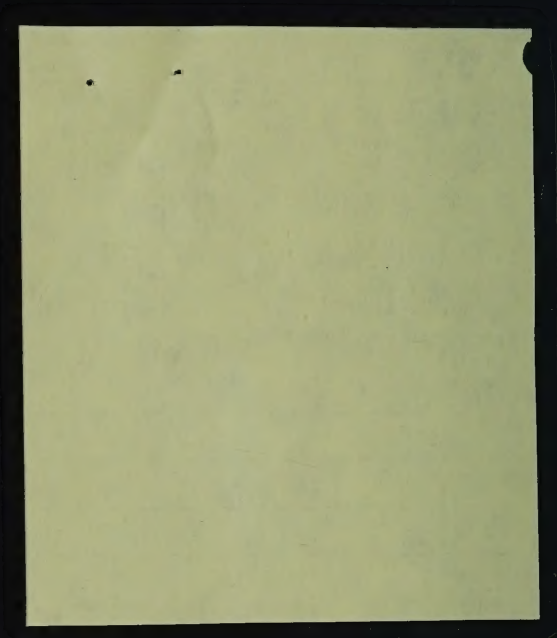
FINAN ASSUR LINER

GW CORR MEAS METHANE

GW MONITORING RUN OFF/ON

INSPECTIONS O & M

OTHER: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

#400
239
RECEIVED

MAR 03 2020

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

January 20, 2020

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

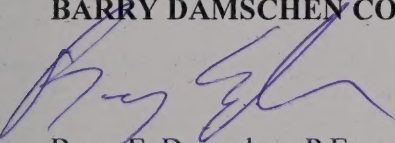
Dear Mike:

Enclosed please find a summary of the year 2019 methane monitoring results at the closed Unified Disposal landfill in Havre. Significant amounts of methane were detected over the year in MG-1. I should also note that MG-2 became plugged five years ago and we were able to unplug MG-2A; but not MG-2B. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC


Barry E. Damschen, P.E.
Project Manager

cc: Amy Ferguson

Enclosure

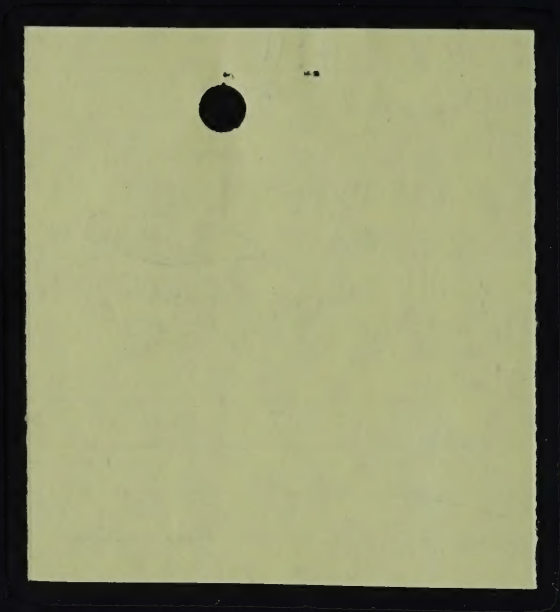
**UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3/13/19		17.0	34.3	FROZEN	0	0	CO ₂
		LOCKED	1.7	48.7	FROZEN	0	0	Methane
			8.6	0.4	FROZEN	19.2	19.3	Oxygen
2	5/21/19		0.2	36.0	0.3		0.2	CO ₂
		LOCKED	0	57.2	0	PLUGGED	0	Methane
			19.2	0.4	19.0		19.4	Oxygen
3	7/17/19		22.1	38.2	0.1		0	CO ₂
		LOCKED	25.0	11.3	0	PLUGGED	0	Methane
			6.7	0.5	18.5		18.5	Oxygen
4	10/29/19		3.9	2.3	0		0.1	CO ₂
		LOCKED	3.5	0	0	PLUGGED	0	Methane
			16.5	17.0	19.4		19.1	Oxygen

ENTERED DISPOSAL DISTRICT CLOSED FACILITY
 MECHANICAL MONITORING RESULTS
 (All results in percent of total sample)

Quarter	Date	Other	MC-1A	MC-1B	MC-1A	MC-1B	MC-2
1	10/1/91		1.4	0.1	1.4	0.1	0.1
		LOCKED	1.1	0.1	1.1	0.1	0.1
			0.1	0.1	0.1	0.1	0.1
2	10/1/91		0.1	0.1	0.1	0.1	0.1
		LOCKED	0.1	0.1	0.1	0.1	0.1
			0.1	0.1	0.1	0.1	0.1
3	10/1/91		0.1	0.1	0.1	0.1	0.1
		LOCKED	0.1	0.1	0.1	0.1	0.1
			0.1	0.1	0.1	0.1	0.1
4	10/1/91		0.1	0.1	0.1	0.1	0.1
		LOCKED	0.1	0.1	0.1	0.1	0.1
			0.1	0.1	0.1	0.1	0.1

COUNTY Hill
FACILITY & #: 389
CLOSURE LANDFARM
FINAN ASSUR LINER
GW CORR MEAS METHANE
GW MONITORING RUN OFF/ON
INSPECTIONS O & M
OTHER: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

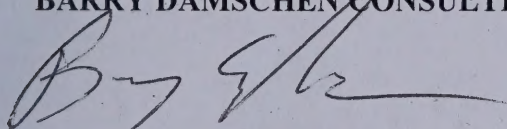
February 4, 2020

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear Mike:

Please find enclosed my fourth quarter (2019) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

ST 2-7-20
RECEIVED

193 FEB 06 2020

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed) License #: 389
 Date: 10-29-19 Time: 1200 Sampler: B. Damsch
 Air Temperature: 20° cold windy cloudy
 Other Weather Conditions: _____

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	3.5	3.9	16.5	
1B	0	2.3	17.0	
#3	0	0.1	19.1	
#2A	0	0	19.4	
2B	plugged			

NOTES:

RECEIVED

FEB 06 2020

Dept. of Enviro. Quality
 Waste & Underground
 Tank Management Bureau

County HILL

Facility Unified Disposal

389

Renewal/Fees

Main

Closure

Finan Assur

GW Corr Meas

GW Monitoring

Other: _____

GW Reports

Inspections

Landfarm

Liner

Methane

O & M

Run-on





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

October 15, 2019

Mike Eder
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

113
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OCT 22 2019

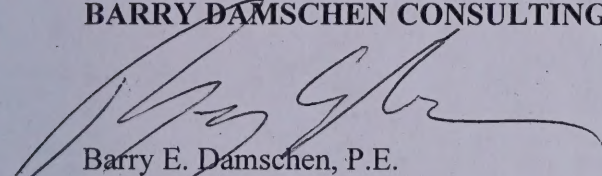
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Mike:

Please find enclosed my third quarter (2019) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (11)

License #: 389

Date: 7-17-19 Time: 1500

Sampler:

Air Temperature: 80

Other Weather Conditions: Sunny - 1102

[illegible]

NOTES:

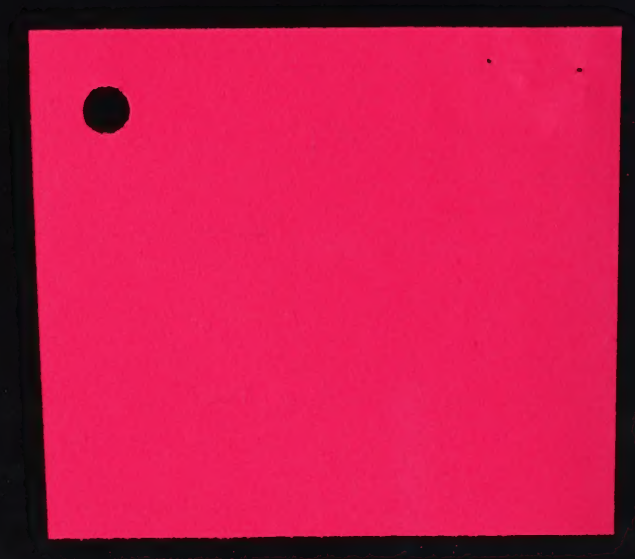
RECEIVED

OCT 22 2019

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

County Hill
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: closed file

Co
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O



Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Date: 11-12-18 Time: 1300

Sampler: B. Dansch

Air Temperature: 33

Other Weather Conditions: cold - windy - cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	0.5	5.5	15.5	
1B	1.5	15.0	5.8	
3	0	0.1	19.2	
2A	plugged			
2B		plugged		

NOTES:

RECEIVED

DEC 31 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

WS 12/11/19

RECEIVED

DEC 31 2018

BARRY DAMSCHEN CONSULTING, LLC

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Engineering • Solid Waste Management

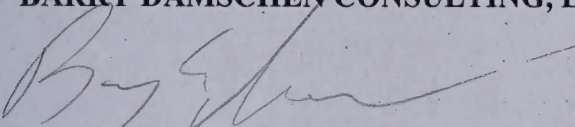
December 24, 2018

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear John:

Please find enclosed my fourth quarter (2018) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

RECEIVED
DEC 8 1 1992
Office of Ocean & Coastal Resources
State of Maryland

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Civil • Environmental • Construction Management

December 24, 2012

John C. Smith
Planning Department of Environmental Quality
P.O. Box 200901
Hialeah, FL 33020

Dear John:

Please find enclosed my current resume (2012) and letters for the position available which I
am applying for. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 5-21-19 Time: 1000

Sampler:

Air Temperature:

Other Weather Conditions:

[illegible]

NOTES:

RECEIVED

JUL 25 2019

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility: United Chemical Industries (UIC)
 Date: 7-21-19
 Time: 10:00
 Air Temperature: 77
 Other Weather Conditions: Cloudy
 Location: 15-100
 License #: 388
 Signature: [Signature]

Location	Moisture	Carbon Dioxide	Oxygen	Comments
1A	0	0.5	19.5	
1B	21.5	34.0	0.1	
2A	0	0.3	19.0	
2B	0	0.2	19.4	Placed bag for sample
3				

NOTES

RECEIVED

JUL 28 2019

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Will

Date: _____ Time: _____

Sampler: _____

Air Temperature: _____

Other Weather Conditions: 

RECEIVED

APR 22 2019

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Location	Methane	Carbon Dioxide	Oxygen	Comments
1B	48.7	34.3	0.4	
1A	1.7	17.0	8.6	
2B	0	0	19.2	
2A	plugged			
3		0	19.3	

NOTES:



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

April 18, 2019

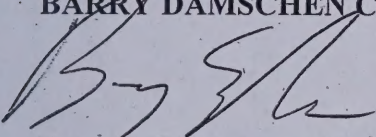
John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear John:

Please find enclosed my first quarter (2019) field sheets for the eighteen landfills which I monitor for methane. Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

AT
RECEIVED

APR 22 2019

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

April 16, 2013

John Collins

Michigan Department of Environmental Quality

P.O. Box 30000

Lansing, MI 48207

Dear John:

Please find enclosed my first quarter (2013) field sheets for the nitrogen landfill (which I monitor for methane). Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC

Barry R. Damschen, P.E.

Project Manager

RECEIVED

APR 22 2013

State of Michigan
Department of Environmental
Quality Management Bureau



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

January 15, 2019

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

#389

W11

Dear John:

Enclosed please find a summary of the year 2018 methane monitoring results at the closed Unified Disposal landfill in Havre. Significant amounts of methane were detected over the year in MG-1. I should also note that MG-2 became plugged four years ago and we are attempting to unplug it. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Amy Ferguson

Enclosure

RECEIVED

FEB 13 2019

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3/12/18		NR	NR	NR	NR	NR	CO ₂
		LOCKED	NR	NR	NR	NR	NR	Methane
			NR	NR	NR	NR	NR	Oxygen
2	6/21/18		10.1	37.5			0	CO ₂
		LOCKED	21.3	62.0	PLUGGED	PLUGGED	0	Methane
			12.9	0.5			19.7	Oxygen
3	9/18/18		19.0	38.5	0		0.3	CO ₂
		LOCKED	27.1	52.7	0	PLUGGED	0	Methane
			9.4	0.6	19.5		19.5	Oxygen
4	11/12/18		5.5	15.0			0	CO ₂
		LOCKED	0.5	1.5	PLUGGED	PLUGGED	0	Methane
			15.5	5.8			19.2	Oxygen

NR = Too much snow

UNITED DISTRICT DISTRICT CLOSURE LANDFILL
 PETROLEUM MONITORING RESULTS
 (All results in percent of total sample)

Quarter	Site	Other	MG-1A	MG-1B	MG-2A	MG-2B	MG-3
1	1/10/04		NR	NR	NR	NR	NR
		LOCKED	NR	NR	NR	NR	NR
			NR	NR	NR	NR	NR
2	6/10/04		10.1	37.3			0
		LOCKED	21.3	67.0	PLUGGED	PLUGGED	0
			12.9	0.3			19.7
3	9/10/04		1.0	38.3	0		0.3
		LOCKED	25.1	23.3	0	PLUGGED	0
			9.4	0.0	19.7		19.7
4	11/12/04		2.2	12.0			0
		LOCKED	0.2	1.3	PLUGGED	PLUGGED	0
			12.2	2.8			19.7

NR = Too much snow

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Date: 9-18-18 Time: 1300

Sampler: B. Damsch

Air Temperature: 55

Other Weather Conditions: cloudy - windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	27.1	19.0	9.4	
#1B	52.7	38.5	0.6	
#2	0.	0.1	19.5	
#3	0	0.3	19.5	

NOTES:

RECEIVED

OCT 11 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Date: 6-21-18

Time: 1000

Sampler: B. Damsch

Air Temperature: 80°

Other Weather Conditions: Sunny breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#2	plugged			
#3	0	0	19.7	
#1A	0	0	19.6	
#1B	0	0.1	19.6	
#1A	21.3	10.1	12.9	
#1B	62.0	37.5	0.5	

NOTES:

RECEIVED

JUL 02 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data
BARRY DAMSCHEN CONSULTING

Facility: Unified Disposal District Landfill (C.S.D.)

License #: 389

Date: 3-12-16

Time:

Sampler:

Air Temperature: _____

Other Weather Conditions: _____

RECEIVED

MAY 07 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

[illegible]

NOTES:

Roosevelt 453



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

RECEIVED

MAY 07 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

May 21, 2018

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

Dear John:

Please find enclosed my first quarter (2018) field sheets for the eighteen landfills in which I monitor for methane. It was very difficult to get to some of the wells at some of the sites due to the extreme snow conditions. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures



BARRY DAMSCHEN CONSULTING, LLC

389

Engineering • Solid Waste Management

January 15, 2018

John Collins
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

JAN 10 2018

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

hill

Enclosed please find a summary of the Year 2017 methane monitoring at the closed Unified Disposal District landfill in Havre. Significant amounts of methane were detected over the year in MG-1 but the levels have dropped significantly compared to previous years. Methane in M6-2A was not detected at all again this past year which follows the decreasing trend from the years before. I should also note that MG-2B became plugged three years ago and it does not appear likely that we can unplug it. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian
Enclosure

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2-28-17	LOCKED	7.8	0	0		0	CO ₂
			14.3	0	0	PLUGGED	0	Methane
			15.6	20.6	21.0		21.1	Oxygen
2	6-25-17	LOCKED	10.2	26.2	0		0	CO ₂
			13.0	30.7	0	PLUGGED	0	Methane
			12.3	0.7	20.2		20.1	Oxygen
3	8-16-17	LOCKED	10.0	59.6	0		0.1	CO ₂
			15.4	37.9	0	PLUGGED	0	Methane
			14.3	0.6	20.2		20.1	Oxygen
4	10-16-17	LOCKED	6.6	36.5	0		0	CO ₂
			7.4	50.6	0	PLUGGED	0	Methane
			16.3	0.5	20.1		19.9	Oxygen

County Hi. U
Facility & # 389
Closure _____ Landfarm
Finan Assur _____ Liner
GW Corr Meas Methane
GW Monitoring _____ O & M
GW Reports _____ Run-on
Inspections _____
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

December 4, 2017

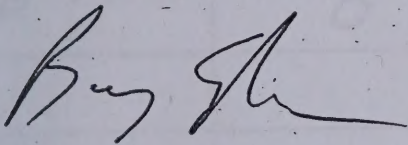
John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901


RECEIVED
DEC 05 2017
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my fourth quarter (2017) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (closed)

License #: 389

Date: 10-16-17 Time:

Sampler: B. D. Amshar

Air Temperature: 66

Other Weather Conditions: wind - 1 - 5 mph

Location	Methane	Carbon Dioxide	Oxygen	Comments
# 1A	7.4	6.6	16.3	
# 1B	50.6	36.5	0.5	
# 3	0	0	19.9	
# 2	0	0	20.1	

NOTES:

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DEC 05 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

County Mid
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

October 23, 2017

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901

Handwritten mark
RECEIVED

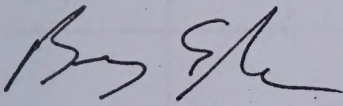
OCT 26 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my third quarter (2017) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (OLD)

License #: 389

Date: 8-16-17

Time: 1530

Sampler: B. D. Amick

Air Temperature: 90

Other Weather Conditions: sun-f breezy

RECEIVED

OCT 26 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1 A	15.4	10.0	14.3	
#1 B	59.6	37.9	0.6	
#2 A	0	0	20.2	
#3	0	0.1	20.1	

NOTES:

County Hi 4
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

July 21, 2017

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901

RECEIVED
JUL 24 2017
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my second quarter (2017) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-25-2017 Time: 1400

Sampler: B. Damachen

Air Temperature: 78°

Other Weather Conditions: CLEAR

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1-A	13.0	10.2	12.3	
#1-B	30.7	20.2	0.7	
#3	0	0	20.1	
#2	0	0	20.2	

NOTES:

RECEIVED RECEIVED

JUL 24 2017 JUL 24 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau
Dept. of Enviro.
Waste & Under
Tank Managem

County Hill

Facility & # 389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

April 20, 2017

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901

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APR 24 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my first quarter (2017) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389 CLOSED

Date: 2-28-17

Time: 10:00

Sampler: B. Danck

Air Temperature: 12

Other Weather Conditions: cold-breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	14.3	7.8	15.6	
1B	0	0	20.6	
2	0	0	21.0	
3	0	0	21.1	

NOTES:

RECEIVED

APR 24 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

County Hill

Facility & # 389

Closure Landfarm

Finan Assur Liner

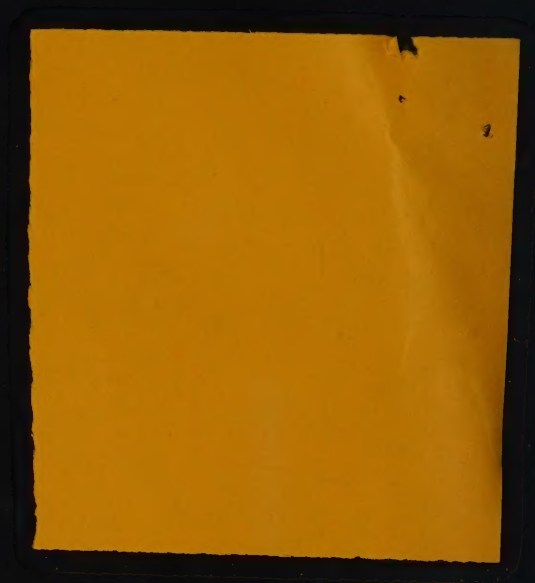
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

#281 #1389
#440
HILL

January 18, 2017

John Collins
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED
FEB 07 2017
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Enclosed please find a summary of the Year 2016 methane monitoring at the closed Unified Disposal District landfill in Havre. Significant amounts of methane were detected over the year in MG-1. Methane in MG-2A was not detected at all this past year which follows the decreasing trend from the years before. I should also note that MG-2B became plugged two years ago and it does not appear likely that we can unplug it. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian
Enclosure

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-21-16	LOCKED	14.7	33.8	0		0	CO ₂
			41.6	56.1	0	PLUGGED	0	Methane
			5.3	0.5	20.7		20.8	Oxygen
2	6-6-16	LOCKED	23.5	36.4	0		0.2	CO ₂
			61.5	63.0	0	PLUGGED	0	Methane
			0.7	0.4	20.2		19.9	Oxygen
3	9-29-16	LOCKED	19.5	31.0	0		0.1	CO ₂
			35.1	42.6	0	PLUGGED	0	Methane
			3.5	0.7	20.4		20.4	Oxygen
4	11-14-16	LOCKED	20.0	37.2	0		0	CO ₂
			51.7	56.4	0	PLUGGED	0	Methane
			3.3	0.5	20.6		20.5	Oxygen

County Mid

Facility & # 389

Closure Landfarm

Finan Assur Liner

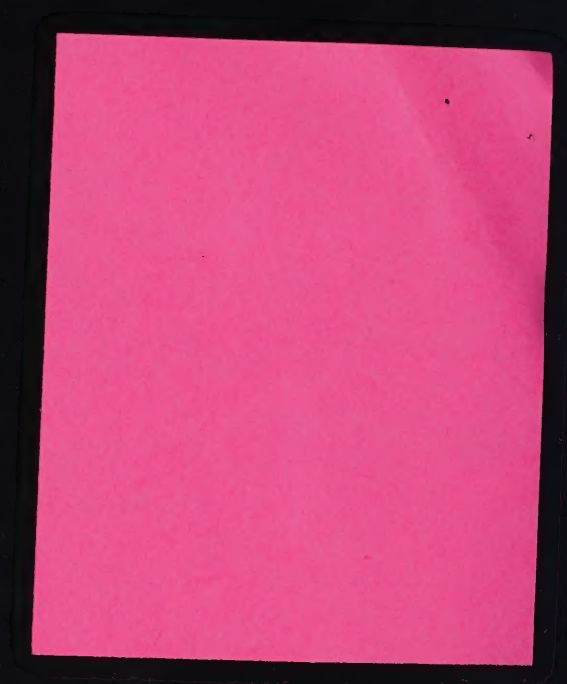
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

December 28, 2016

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901

Dear John:

Please find enclosed my fourth quarter (2016) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures

st
RECEIVED
JAN 06 2017
Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (OWD)

License #: 389 49

Date: 11-14-16 Time: _____

Sampler: B. Damschew

Air Temperature: 63°

Other Weather Conditions: windy- Cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1-A	51.7	20.0	2.3	
#1-B	56.4	37.2	0.5	
#3	0	0	20.5	
#2	0	0	20.6	

NOTES:

RECEIVED

JAN 06 2017

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

County Hill

Facility & # 389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



Methane Monitoring Field Data

RECEIVED

OCT 14 2016

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility: Unified Disposal District Landfill

License #: 389

Date: 9-29-16 Time: 1130

Sampler: B. D. Smith

Air Temperature: 60.5

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1 A	35.1	19.5	3.5	
#1 B	42.6	31.0	0.7	
#2 A	0	0	20.4	
#2 B	plugged with c-things, etc			
#3	0	0.1	20.4	

NOTES:



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

October 12, 2016

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59620-0901

RECEIVED

OCT 14 2016

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my third quarter (2016) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosures

BARRY DAMSCHEN CONSULTING, LLC

Consulting • Sales & Marketing Management

October 11, 2018

RECEIVED

OCT 14 2018

Barry Damschen Consulting, LLC
1000 West 10th Street
Suite 100
Anchorage, Alaska 99501

John C. Smith
President/Managing Director of Environmental Quality
1000 West 10th Street
Suite 100
Anchorage, AK 99501-9901

Dear John:

Please find enclosed my final quote for 2018 field work for the various locations in which I monitor for
methane. Please call if you have any questions.

Very truly yours,
Barry Damschen Consulting, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosure

County MI
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

January 4, 2016

John Collins
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

FEB 09 2016

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Dear John:

Enclosed please find a summary of the Year 2015 methane monitoring at the closed Unified Disposal District landfill in Havre. Significant amounts of methane were detected over the year in MG-1. The methane however appears to be decreasing compared to previous years. Methane in M6-2A was not detected at all this past year which follows the decreasing trend from the years before. I should also note that MG-2B became plugged two years ago and it does not appear likely that we can unplug it. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian
Enclosure

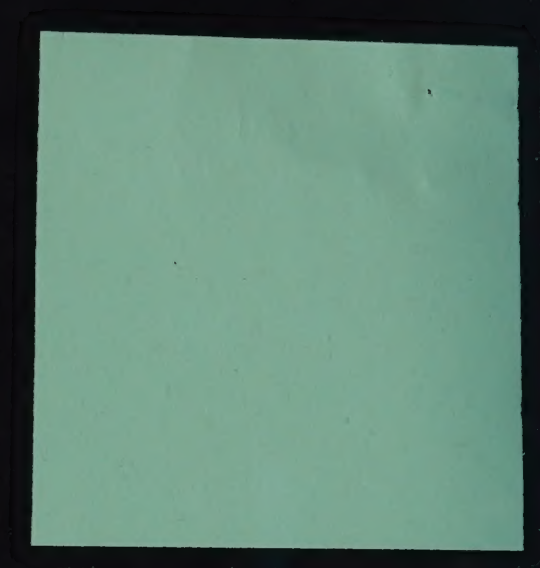
309

UNIFIED DISPOSAL DISTRICT CLOSED LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-24-15	LOCKED	0	0.1	0		0	CO ₂
			0	0	0	PLUGGED	0	Methane
			21.1	21.1	21.1		21.1	Oxygen
2	6-24-15	LOCKED	0.1	17.2	0		0.2	CO ₂
			0	25.2	0	PLUGGED	0	Methane
			20.5	9.0	20.4		20.1	Oxygen
3	9-14-15	LOCKED	11.0	39.2	0		0	CO ₂
			28.4	60.2	0	PLUGGED	0	Methane
			12.3	0.4	20.5		20.5	Oxygen
4	11-9-15	LOCKED	4.0	27.8	0		0.2	CO ₂
			9.8	37.9	0	PLUGGED	0	Methane
			18.0	4.9	20.7		20.7	Oxygen

County Hill
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management

July 27, 2016

John Collins
Montana Department of Environmental Quality
P.O. Box 200901
Helena, Mt. 59620-0901

RECEIVED

AUG 08 2016

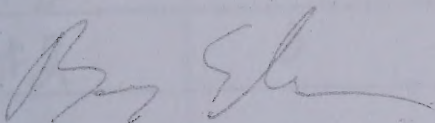
Dept. of Environmental Quality
Waste & Underground
Tank Management Bureau

Dear John:

Please find enclosed my second quarter (2016) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

(OLD)

Hill
County
(closed)Facility: Unified Disposal District LandfillLicense #: 389Date: 6-6-2016 Time: 1400Sampler: B. DamschenAir Temperature: 81Other Weather Conditions: Clear-breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	61.5	23.5	0.7	
#1B	62.0	26.4	0.4	
#3	0	0.2	19.9	
#2	0	0	20.2	

NOTES:

RECEIVED

AUG 08 2016

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

RECEIVED

APR 22 2016

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-27-16 Time: 1500

Sampler: G. Dansch

Air Temperature: 65

Other Weather Conditions: very windy - partly cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
# 1A	41.6	14.7	5.3	
B	56.1	33.8	0.5	
# 2	0	0	20.7	
# 3	0	0	20.8	

NOTES:

See new Sampling Field Log

Region: United Nations District Council

Date: 7-27-12 Time: 15:00

Altitude: 12

Other Notes: Good weather

Location: 358
Project: 358

Very muddy - full of debris

Location	Station	Gravel Depth	Gravel	Comments
#1	N1.2	14.7	2.3	
#2	N1.1	33.0	0.2	
#3	0	0	20.7	
#4	0	0	50.0	

Notes

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 9-14-15 Time: 1300

Sampler: B. Davis

Air Temperature: 66

Other Weather Conditions: windy cloudy

OCT 21 2015

DEPT. OF ENVIRON. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	28.4	11.0	12.3	
1B	60.2	39.2	0.4	
2A	0	0	20.5	
2B plugged			2	
3	0	0.1	20.5	

NOTES:

County Hi U

Facility & # 389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

July 13, 2015

John Collins
Montana Department of Environmental Quality
P. O. Box 200901
Helena, MT. 59620-0901

RECEIVED *EL*

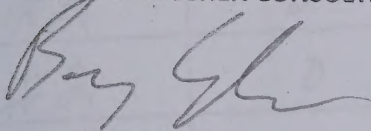
JUL 15 2015

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Dear John:

Please find enclosed my second quarter (2015) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-24-15

Time: _____

Sampler: B. Damschew

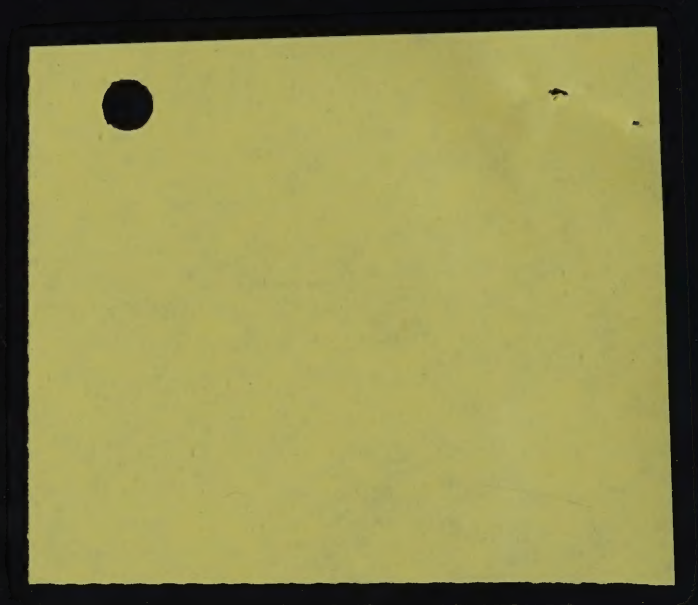
Air Temperature: 82°

Other Weather Conditions: partly cloudy

[illegible]

NOTES:

County Mid
Facility & # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



Methane Monitoring Field Data

OLD - closed

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-24-15

Time: 1200

Sampler: BiDarrich

Air Temperature: 35°

Other Weather Conditions: cold - windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	0	0	21.1	
1B	0	0.1	21.1	
2A	0	0	21.1	
3	0	0	21.1	

NOTES:

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 8-19-14 Time: 930

Sampler: B. D. Dink

Air Temperature: 75°

Other Weather Conditions: Sunny

[illegible]

NOTES:

RECEIVED

OCT 09 2014

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389 6LD

Date: 6-16-14 Time: 1400

Sampler: B. Danesh

Air Temperature: 58°

Other Weather Conditions: cloudy rainy

Location	Methane	Carbon Dioxide	Oxygen	Comments
# 2A	0.2	0	19.8	
No 2B plugged				
1A	35.0	11.2	9.2	
1B	61.2	37.3	1.0	
3	0	0.2	20.0	

NOTES:

RECEIVED

JUL 09 2014

DEPT. OF ENVIR. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

License #: 389

Sampler: B. D. Smith

Other Weather Conditions: windy - sunny

RECEIVED
APR 03 2014
DEPT. OF ENVIRONMENTAL QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

NOTES:



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

December 30, 2013

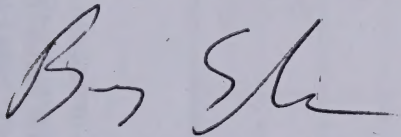
John Collins
Montana Department of Environmental Quality
P. O. Box 200901
Helena, MT. 59620-0901

Dear John:

Enclosed please find a summary of the Year 2013 methane monitoring at the new Unified Disposal landfill in Havre. There was no methane generated during the year.

If you have any questions or require any additional information, please do not hesitate to contact me.

Sincerely,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Cc: Clay Vincent, Hill County Sanitarian
Enclosure

BARRY DAMSCHEN CONSULTING, LLC

Eighty-one • 2013 Year Summary • Cash & Investments

December 31, 2013

Barry Damschen
Executive Director of Environmental Quality
P.O. Box 1000
Bismarck, ND 58103

Dear John:

Enclosed please find a summary of the Year 2013 activities as outlined at the new United
Nations Summit in London. There was an immense gathering during the year.

If you have any questions or require any additional information, please do not hesitate to
contact me.

Respectfully,
Barry Damschen Consulting, LLC



Barry A. Damschen, P.E.
United Nations

C/O: City of Bismarck, ND
Bismarck

UNIFIED DISPOSAL DISTRICT NEW LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	No.1	No. 2				
1	2-27-13	0	0	0.7	CO2			
		0	0	0	Methane			
		20.7	20.3	13.6	Oxygen			
2	6-24-13	0	1.9	1.2	CO2			
		0	0	0	Methane			
		20.1	13.4	4.6	Oxygen			
3	9-16-13	0	0	1.0	CO2			
		0	0	0	Methane			
		20.1	19.9	15.1	Oxygen			
4	12-10-13	0	0	0.2	CO2			
		0	0	0	Methane			
		20.1	20.2	17.6	Oxygen			

4	12-10-13	30.1	30.3	13.0	Golden		
		0	0	0	Wetmore		
		0	0	0.5	COB		
3	8-10-13	30.1	13.6	12.1	Golden		
		0	0	0	Wetmore		
		0	0	1.0	COB		
5	8-10-13	30.1	13.4	4.5	Golden		
		0	0	0	Wetmore		
		0	1.3	1.3	COB		
1	5-12-13	30.1	30.3	13.4	Golden		
		0	0	0	Wetmore		
		0	0	0.5	COB		
Grand	1346	0.0006	30.1	30.3			

10/25/13

Copy sample to be used as copy material

RECEIVED BY THE NATIONAL BUREAU OF

FOREST SERVICE, WASHINGTON, D.C.

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: Oct. 21, 2013 Time: 1300

Sampler: Barry Damschen

Air Temperature: 48°

Other Weather Conditions: Windy - Cloudy - Chilly

Location	Methane	Carbon Dioxide	Oxygen	Comments
# 2-A	0	0	20.0	
# 2-B	0	0	19.9	
# 3	0.1	0.1	20.1	
# 1-A	25.4	9.0	12.1	
# 1-B	49.7	36.6	0.5	
Bu. 1-L	Locked			

NOTES:

RECEIVED

JAN 10 2014

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Course: Waste Management and Environmental Engineering
 Semester: III
 Date: 11/11/2019
 Page: 1
 Name: Arjun Kumar

Sl. No.	Question	Answer	Mark
1	Define the term 'Waste'.	Waste is any material or substance which is discarded or rejected by the producer or consumer.	10
2	What are the different types of waste?	Waste can be classified into four types: Solid waste, Liquid waste, Gaseous waste, and Radioactive waste.	10
3	What is the difference between biodegradable and non-biodegradable waste?	Biodegradable waste is waste that can be broken down by natural processes into simpler substances. Non-biodegradable waste is waste that cannot be broken down by natural processes.	10
4	What are the different methods of waste disposal?	The different methods of waste disposal are: Landfilling, Incineration, Composting, and Recycling.	10
5	What is the importance of waste management?	Waste management is important because it helps to protect the environment, conserve resources, and improve public health.	10

NOTE: The above answers are for reference only. The actual answers may vary.

RECEIVED

JAN 10 2020

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389 C/OSD

Date: 9-16-13 Time: 1300

Sampler: B. Dmide

Air Temperature: 80

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	0	1.0	14.0	
B	7.9	6.9	10.9	
#2A	3.7	1.9	18.0	
B	5.9	5.1	11.9	
#				
#3	0	0	20.0	
Building	Locked			

NOTES:

RECEIVED

SEP 30 2013

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United Methodist Hospital (LAWH)

Date: 7-16-13 Time: 12:00

Air Temperature: 80

Other Weather Conditions: Sunny

Licenses: 319 C1674

Sampler: B. Bunch

Location	Mercury	Carbon Dioxide	Oxygen	Comments
81A	0	1.0	14.0	
B	79	1.1	10.9	
42A	75	1.1	18.0	
B	72	1.2	11.9	
43	0	0	20.0	
Building	100%			

RECEIVED

SEP 5 0-2013

DEPT OF ENVIRONMENT
WASTE & HAZARDOUS WASTE
MANAGEMENT DIVISION

NOTES

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389 Closed

Date: 9-16-13 Time: 1300

Sampler: B. D. Smith

Air Temperature: 80

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1 A	0	1.0	14.0	
B	7.9	6.9	10.9	
#2 A	3.7	1.9	18.0	
B	5.9	5.1	11.0 11.9	
C				
#3	0	0	20.0	
Building	Locked			

NOTES:

RECEIVED

SEP 30 2013

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United States District Court

Date: 8-10-12 Time: 12:00

At Temperature: 75

Other Weather Conditions: Sunny

Location	Latitude	Carbon Dioxide	Oxygen	Comments
1/2	0	10	14.5	
1	15	12	14.9	
2	17	13	15.0	
3	22	18	15.1	
4	0	0	15.0	
5	15	15	15.1	
6	15	15	15.1	
7	15	15	15.1	
8	15	15	15.1	
9	15	15	15.1	
10	15	15	15.1	
11	15	15	15.1	
12	15	15	15.1	
13	15	15	15.1	
14	15	15	15.1	
15	15	15	15.1	
16	15	15	15.1	
17	15	15	15.1	
18	15	15	15.1	
19	15	15	15.1	
20	15	15	15.1	

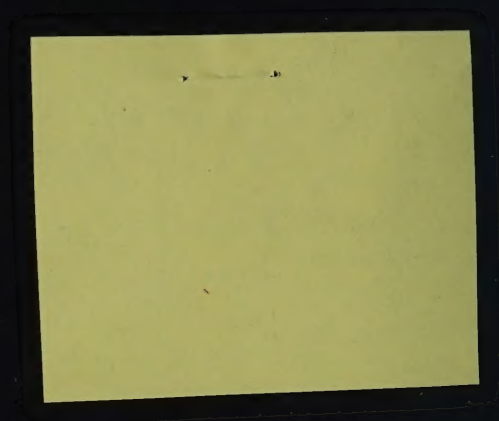
RECEIVED

SEP 3 2012

U.S. DISTRICT COURT

WASHINGTON, D.C.

County Hill
Facility & # Whifin # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other:



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

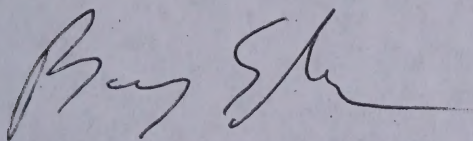
March 25, 2013

Martin Van Oort
Montana Department of Environmental Quality
P. O. Box 200901
Helena, MT. 59620-0901

Dear Martin:

Please find enclosed my first quarter (2013) field sheets for the eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

21

RECEIVED

MAR 25 2013

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389 6LD

Date: 2-27-13 Time: 900

Sampler: B. Danich

Air Temperature: 20

Other Weather Conditions: SKY

RECEIVED

MAR 25 2013

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office	0	0	20.6	
1A	0	6.1	20.5	
1B	10.9	9.7	11.2	
2A	1.3	1.6	17.6	
2B	3.4	4.6	11.3	
3	0	0.1	20.8	

NOTES:

Facility: United Disposal District 1 (L-100)

Date: 5-17-13

Time: 7:00

Other Weather Conditions: 2.4-4.7

Inspector: B. [illegible]

Location: [illegible]

RECEIVED

MAR 28 2013

UNIT 10 TANK 0001
UNIT 10 TANK 0002
UNIT 10 TANK 0003

Location	Distance	Co. Sec. (Feet)	Depth	Comments
0-100	0	0	5.0	
1A	0	1.0	5.0	
1B	10.0	1.0	11.5	
2A	1.0	1.0	17.5	
2B	2.0	1.0	14.5	
3	0	1.0	20.0	

Notes

County Hall

Facility & # Unlined #339

Closure Landfarm

Finan Assur Liner

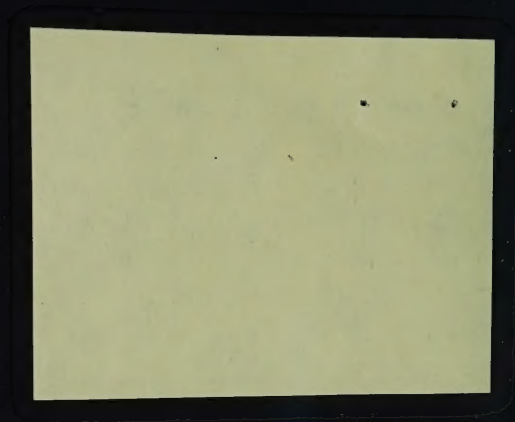
GW Corr Meas ~~Methane~~

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

December 17, 2012

Martin Van Oort
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Enclosed please find a summary of the Year 2012 methane monitoring at the closed Unified Disposal District landfill in Havre. Methane was very sporadically generated in MG-1A, 1B and 2A throughout the year. This may have been caused by the closure work that was conducted throughout the year. This pattern has been the case however for several years. Since there are no buildings near the site, we recommend to continue monitoring the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

41
RECEIVED

DEC 21 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

RECEIVED

DEC 21 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS
(All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-22-12	LOCKED	0.9	0	0.1	0.2	0	CO ₂
		LOCKED	1.0	0	0	0	0	Methane
		LOCKED	21.7	22.7	22.3	22.1	21.9	Oxygen
2	6-21-12	0	8.7	0.1	14.2	0	0.1	CO ₂
		0	9.4	0.1	9.6	0	0	Methane
		20.3	13.4	20.1	2.4	20.3	20.2	Oxygen
3	7-24-12	0	12.3	28.8	0	21.6	0.1	CO ₂
		0	54.0	31.2	0	0.2	0	Methane
		20.5	5.4	4.4	20.2	2.7	20.4	Oxygen
4	10-25-12	0.1	0	4.0	0.1	10.0	0.2	CO ₂
		0	0.2	0	0	0	0	Methane
		20.4	20.4	19.4	20.3	14.0	20.3	Oxygen

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (Closed) License #: 389
 Date: 10-25-2012 Time: 10:00 AM Sampler: B. Damseken
 Air Temperature: 27°
 Other Weather Conditions: OVERCAST - VERY WINDY & COLD

Location	Methane	Carbon Dioxide	Oxygen	Comments
2-A	0	0.1	20.3	
#3	0	0.2	20.3	
1-A	0	0.2	20.4	
1-B	0	4.0	19.4	
Office	0	0.1	20.4	
2-B	0	10.0	14.0	

RECEIVED

DEC 21 2012

DEPT. OF ENVIRONMENTAL
WASTE & INFRASTRUCTURE
MANAGEMENT BOARD

NOTES:

County Hill

Facility & # Verfied #389

Closure Landfarm

Finan Assur Liner

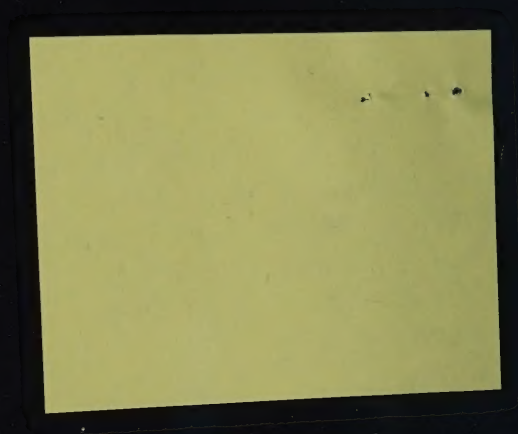
GW Corr Meas ~~Methane~~

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

October 8, 2012

Martin Van Oort
Department of Environmental Quality
P. O. Box 200901-0901
Helena, MT. 59602-0901

RECEIVED ON

OCT 10 2012

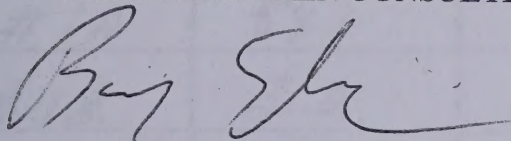
Dept. of Environmental Quality
Waste & Underground
Tank Management Bureau

Dear Martin:

Please find enclosed my third quarter (2012) field sheets for eighteen landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P. E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill (old)

License #: 389

Date: 7-24-12 Time: 9:30

Sampler: B. Damschen

Air Temperature: 65°

Other Weather Conditions: Clear - breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#2A	0	0	20.2	
#2B	0.2	21.6	2.7	
#3	0	0.1	20.4	
#1A	54.0	12.3	5.4	
#1B	31.2	28.8	4.4	
SHOP	0	0	20.5	

NOTES:

RECEIVED ON

OCT 10 2012

Dept. of Environmental Quality
Waste & Underground
Tank Management Bureau

Facility: United Electrical Service Center (467)
 Date: 7-24-18 Time: 9:30
 License #: 383
 Sampler: L. L. L. L.
 Air Temperature: 65°
 Other Weather Conditions: Clear - breezy

Location	Metre	Carbon Dioxide	Oxygen	Comments
#2A	0	0	21.2	
#2B	0.2	21.2	21.0	
#2C	0	21.0	21.4	
#1A	24.0	21.2	21.4	
#1B	21.2	21.2	21.4	
#1C	0	0	21.2	

RECEIVED ON
 OCT 10 2018
 Dept. of Environmental Quality
 Water & Land Use Division
 Joint Management Bureau

County Hill

Facility & # Unifin #389

Closure Landfarm

Finan Assur Liner

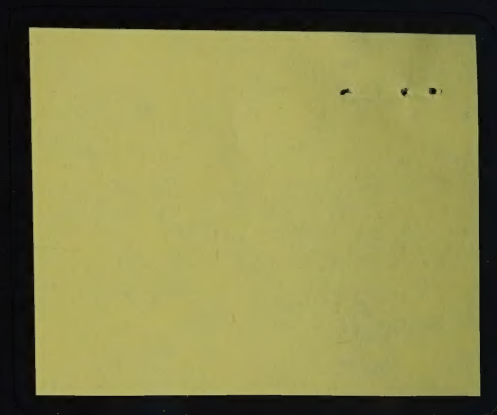
GW Corr Meas ~~Methane~~

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

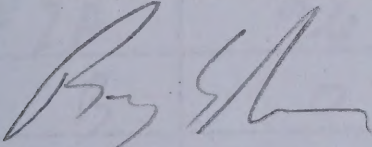
July 18, 2012

Martin Van Oort
Department of Environmental Quality
P. O. Box 200901-0901
Helena, MT. 59602-0901

Dear Martin:

Please find enclosed my second quarter (2012) field sheets for the 17 landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

RECEIVED
JUL 20 2012
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-21-12 Time: 1100

Sampler: B. Danckler

Air Temperature: 65

Other Weather Conditions: 5406

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	9.4	8.7	13.4	
B	0.1	0.1	20.1	
#2A	9.6	14.2	2.4	
B	0	0	20.3	
#3	0	0.1	20.2	
shop	0	0	20.3	

NOTES:

RECEIVED

JUL 20 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United Disposal System

Date: 6-21-15 Time: 1:00

Air Temperature: 65

Other Weather Conditions: Heavy

Sample:

License #: 588

020

B. Dwyer

Location	Volume	Carbon Content	Other	Comments
41A	7.4	8.7	1.2	
2	0.1	0.1	2.0	
42A	7.0	14.2	2.4	
6	0	0	20.0	
43	0	0.1	20.2	
Shop	0	0	20.3	

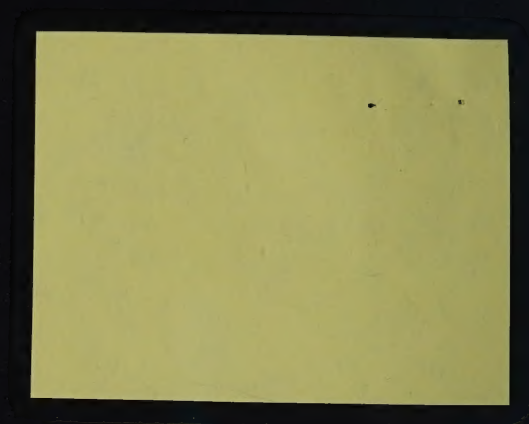
NOTES

RECEIVED

JUL 20 2015

DEPT OF ENVIRONMENTAL
WASTE & LANDFILL
MANAGEMENT BUREAU

County Hill
Facility & # Unified #389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

March 24, 2012

Martin Van Oort
Department of Environmental Quality
P.O. Box 200901-0901
Helena, MT. 59602-0901

RECEIVED

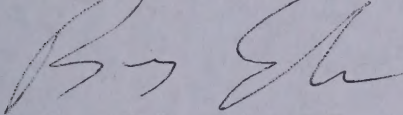
MAR 28 2012

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Martin:

Please find enclosed copies of my first quarter (2012) field sheets for the 17 landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 388

(ald)

Date: 3-22-2012 Time: 5pm

Sampler: B. Damschen

Air Temperature: 54°

Other Weather Conditions: partly cloudy - breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
#3	0	0	21.9	
2A	0	0.1	22.3	
2B	0	0.2	22.1	
1A	0 1.0	0.9	21.7	
1B	0	0	22.7	
office	locked			

RECEIVED

MAR 28 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

NOTES:

County Hill

Facility & # Verified #389

Closure Landfarm

Finan Assur Liner

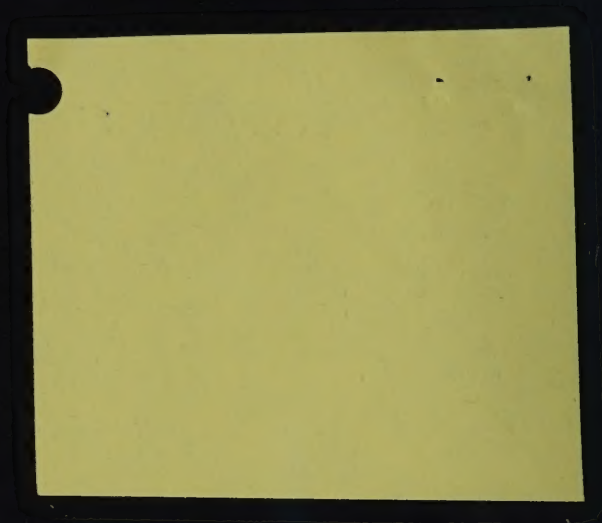
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

December 20, 2011

Martin Van Oort
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

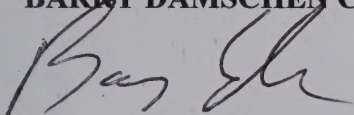
Dear Martin:

Enclosed please find a summary of the Year 2011 methane monitoring at the Unified Disposal District landfill in Havre. A significant amount of methane was detected in MG-1B during the year. This pattern has been the case for several years. Since there are no buildings near the site, we recommend to continue to monitor the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

JAN 03 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

RECEIVED

JAN 03 2012

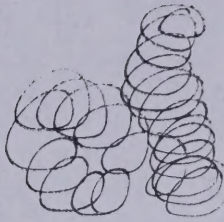
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

**UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-29-11	0	1.9	45.0	2.5	6.7	0	CO ₂
		0	0	43.5	0	0	0	Methane
		20.9	20.6	3.6	20.5	14.1	20.7	Oxygen
2	5-18-11	0	4.1	8.8	3.1	10.0	0	CO ₂
		0	0	2.9	0	1.2	0	Methane
		20.9	20.4	10.4	20.6	11.4	20.9	Oxygen
3	8-26-11	0	0	2.3	0.8	19.0	0.8	CO ₂
		0	0	0	0	0	0	Methane
		21.0	21.0	20.8	20.5	13.9	20.8	Oxygen
4	11-3-11	0	25.0	25.0	0	19.7	0	CO ₂
		0	3.5	4.3	0	0	0	Methane
		20.8	8.1	10.0	20.7	13.7	20.2	Oxygen

Methane Monitoring Field Data



Facility: Unified Disposal District Landfill

License #: 389

Date: 11-3-2011 Time: _____

Sampler: B. Ganschen

Air Temperature: 31°

Other Weather Conditions: cloudy, breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
shop	0	0	20.8	
#3	0	0	20.2	
#2-A	0	0	20.7	
#2-B	0	19.7	13.7	
#1-A	3.5	25.0	8.1	
#1-B	4.2	25.0	10.0	

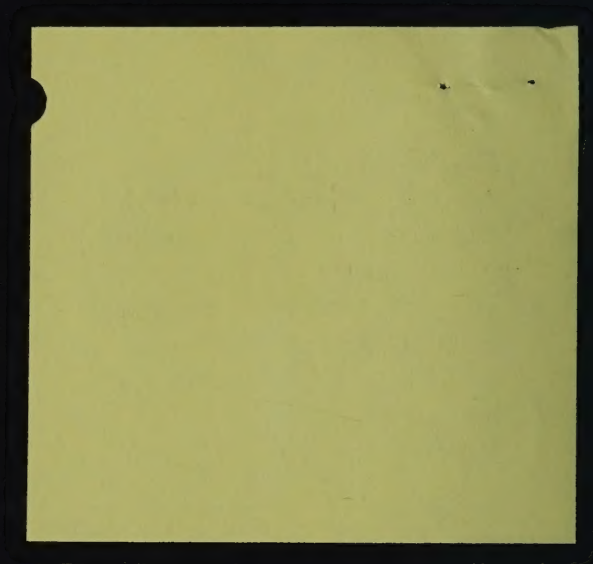
NOTES:

RECEIVED

JAN 03 2012

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hill
Facility & # Unifed #389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

October 3, 2011

Martin Van Oort
Department of Environmental Quality
P.O. Box 200901
Helena, MT. 59602-0901

81
RECEIVED
OCT 05 2011
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Dear Martin:

Please find enclosed copies of my third quarter (2011) field sheets for the 17 landfills in which I monitor for methane. Please call if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 8-26-11 Time: 900

Sampler: B. Daniels

Air Temperature: 70

Other Weather Conditions: @ Sunny & breezy

Location	Methane	Carbon Dioxide	Oxygen	Comments
<u>-Site</u>	<u>0</u>	<u>0</u>	<u>21.0</u>	
<u>1A</u>	<u>0</u>	<u>0</u>	<u>21.0</u>	
<u>1B</u>	<u>0</u>	<u>2.3</u>	<u>20.8</u>	
<u>2A</u>	<u>0</u>	<u>0.8</u>	<u>20.5</u>	
<u>2b</u>	<u>0</u>	<u>19.0</u>	<u>13.7</u>	
<u>3</u>	<u>0</u>	<u>0.8</u>	<u>20.8</u>	

RECEIVED

NOTES:

OCT 05 2011

DEPT. OF ENVIRONMENTAL QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United States Capitol Campus

Date: 8-24-11 Time: 9:00

Activity: [illegible]

Other Worksheet Numbers: [illegible]

Location	Meters	Output (Watts)	Output (dBm)	Comments
Room 1A	0	0	0	2.0
Room 1B	0	0	0	2.0
Room 1C	0	0	0	2.0
Room 1D	0	0	0	2.0
Room 1E	0	0	0	2.0
Room 1F	0	0	0	2.0
Room 1G	0	0	0	2.0
Room 1H	0	0	0	2.0
Room 1I	0	0	0	2.0
Room 1J	0	0	0	2.0
Room 1K	0	0	0	2.0
Room 1L	0	0	0	2.0
Room 1M	0	0	0	2.0
Room 1N	0	0	0	2.0
Room 1O	0	0	0	2.0
Room 1P	0	0	0	2.0
Room 1Q	0	0	0	2.0
Room 1R	0	0	0	2.0
Room 1S	0	0	0	2.0
Room 1T	0	0	0	2.0
Room 1U	0	0	0	2.0
Room 1V	0	0	0	2.0
Room 1W	0	0	0	2.0
Room 1X	0	0	0	2.0
Room 1Y	0	0	0	2.0
Room 1Z	0	0	0	2.0

RECEIVED

CCY 6 & 500
DEPT OF ENVIRONMENT
RECEIVED 8/24/11

County Hill

Facility & # Unit #389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

July 25, 2011

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P. O. Box 200901
Helena, MT. 59620-0901

Re: Unified Landfill Methane Monitoring

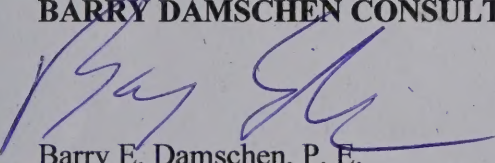
Dear Martin:

As you requested in your April 18, 2011 letter, we have conducted monthly monitoring for methane at the Unified landfill. I am enclosing copies of my field data sheets for our May, June and July monitoring as well as a copy of my March sampling event. As you will notice, the methane levels are below 5.0% for all of the monitoring wells for each of the three months.

The variability of methane levels at some of the wells is most likely attributed to the very close proximity to the waste unit and the weather (precipitation and temperature). Since the methane levels are within the regulatory limits, we request that the District return to quarterly monitoring, especially considering the additional cost that monthly monitoring presents (several hundred dollars for each additional event) versus the benefits that the additional data provides.

We appreciate your consideration and look forward to hearing from you.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC


Barry E. Damschen, P. E.
Project Manager

Enclosures
Cc: Clay Vincent

PT
RECEIVED

JUL 26 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-29-11 Time: 1100

Sampler: B. Danick

Air Temperature: 40

Other Weather Conditions: SAF

First 1/4

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	0.435	1.9	20.6	
#1B	45.0	3.6		
2A	0	2.5	20.5	
2B	0	6.7	14.1	
#3	0	0	20.7	
-100	0	0	20.9	

RECEIVED

NOTES:

JUL 26 2011

DEPT. OF ENVI. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 5-18-11 Time: 1300

Sampler: DAmico

Air Temperature: 59

Other Weather Conditions: cloudy - Raining

2nd try

Location	Methane	Carbon Dioxide	Oxygen	Comments
off Pipe	0	0	20.9	
1A	0	4.1	20.4	
1B	2.9	8.8	20.4	
2A	0	3.1	20.6	
2B	1.2	10.0	11.4	
3	0	0	20.9	

NOTES:

RECEIVED

JUL 26 2011

DEPT. OF ENVIRONMENTAL QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United Disposal Plant License #: 399
Date: 2-15-11 Time: 1:20 Sensor: Onboard
Air Temperature: 8.3
Other Weather Conditions: clear, breezy
2 1/2 ft

Location	Moisture	Carbon Dioxide	Oxygen	Comments
2 ft	0	0	20.5	
1 ft	0	4.1	20.4	
1 ft	2.2	8.8	20.4	
0.5 ft	0	3.1	20.2	
2 ft	1.2	10.0	11.4	
3 ft	0	0	20.2	

NOTES: RECEIVED
JUL 3 2 10 PM
DEPT OF ENVIRONMENTAL PROTECTION
1000 17th Street, NW
Washington, DC 20036

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-15-11 Time: 830

Sampler: B. Damick

Air Temperature: 50's

Other Weather Conditions: Sunny - windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
office	0	0	20.9	
1A	4.5	10.0	14.1	
1B	4.1	5.0	16.2	
3	0	1.5	20.5	
2A	0	0	20.9	
2B	3.9	4.7	14.9	

NOTES:

RECEIVED

JUL 26 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Station: Station 11 Date: 11-11-11
 Location: Station 11 Time: 8:30
 Operator: R. D. Smith

Location	Station	Station Depth	Depth	Comments
Station 11	0	0	20.0	
Station 11	2.2	10.0	14.1	
Station 11	4.1	20.0	10.2	
Station 11	0	12.0	20.2	
Station 11	0	0	20.2	
Station 11	2.2	4.2	14.2	

RECEIVED

11-11-11

DATE OF STUDY: 11-11-11
 NAME OF STUDY: 11-11-11
 PROJECT: 11-11-11

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 7-20-11

Time: 800

Sampler: B. Danische

Air Temperature: 60°

Other Weather Conditions: windy, dry

Extra

Location	Methane	Carbon Dioxide	Oxygen	Comments
shop	0	0	21.0	
2 A	0	0.1	20.8	
2 B	0	29.0	2.2	
# 3	0	0.9	20.3	
# 1 A	0	0.5	20.8	
1 B	0	0	20.9	

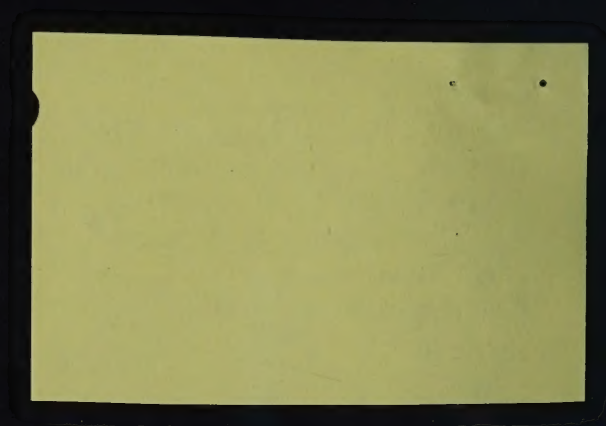
NOTES:

RECEIVED

JUL 26 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

* County Unifed
Facility & # Unifed Rep Rest #389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

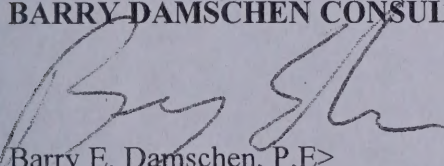
April 1, 2011

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P O Box 200901
Helena, MT 59620-0901

Dear Martin:

Please find enclosed copies of my first quarter (2011) field sheets for the 17 landfills in which I monitor. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

 **RECEIVED**
APR 05 2011
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-29-11 Time: 1100

Sampler: B. Danick

Air Temperature: 40

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
#1A	0 43.5	1.9	20.6	
#1B	0 43.5	45.0	3.6	
2A	0	2.5	20.5	
2B	0	6.7	14.1	
#3	0	0	20.7	
Shop	0	0	20.9	

RECEIVED

APR 05 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BURLING

NOTES:

County Hill

Facility & # United #389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

December 31, 2010

Martin Van Oort
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Enclosed please find a summary of the Year 2010 methane monitoring at the Unified Disposal District landfill in Havre. A significant amount of methane was detected in MG-1 and MG-2 during the spring and summer events. This pattern has been the case for several years. Since there are no buildings near the site, we recommend to continue to monitor the site on a quarterly basis.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED
JAN 05 2011
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

RECEIVED

JAN 05 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU**UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)**LOCATION**

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-18-10	0	5.0	0	0	0	0	CO ₂
		0	12.0	5.6	0.8	0	0	Methane
		21.0	12.6	19.7	20.5	20.8	20.8	Oxygen
2	6-25-10	0	2.9	18.0	0	8.0	0	CO ₂
		0	10.5	30.0	0	14.0	0	Methane
		20.8	16.6	9.0	20.5	6.0	20.8	Oxygen
3	9-20-10	0	0	0	0.7	10.0	1.0	CO ₂
		0	4.5	0	0	0	0	Methane
		21.0	19.4	20.8	20.7	5.7	20.7	Oxygen
4	11-2-10	0	0	0	0.2	0.6	0.1	CO ₂
		0	0	0	0	0	0	Methane
		21.0	20.6	20.5	20.9	20.6	21.0	Oxygen

RECEIVED
JAN 8 2 2011
DIST. OF ENV. QUALITY
MANAGEMENT DIVISION
INTEGR. & MONITORING DIV.

UNITED DISTRICT DISTRICT DISTRICT
METHANE MONITORING RESULTS
(All ranges in percent of total sample)

Quarter	Date	CH ₄	HC-1A	HC-1B	HC-2A	HC-2B	HC-3	CH ₄
4	11-3-10	51.0	30.2	30.2	30.2	30.2	51.0	CH ₄
		0	0	0	0	0	0	Methane
		0	0	0	0.5	0.2	0.1	CO ₂
2	8-30-10	51.0	18.4	30.8	30.1	2.1	50.1	CH ₄
		0	4.2	0	0	0	0	Methane
		0	0	0	0.1	10.0	1.0	CO ₂
5	8-22-10	50.8	18.2	30.0	30.2	2.0	50.8	CH ₄
		0	16.2	30.0	0	14.0	0	Methane
		0	5.6	18.0	0	2.0	0	CO ₂
1	3-18-10	51.0	15.2	18.1	30.2	50.8	50.8	CH ₄
		0	15.0	2.9	0.2	0	0	Methane
		0	2.0	0	0	0	0	CO ₂
Quarter	Date	CH ₄	HC-1A	HC-1B	HC-2A	HC-2B	HC-3	

LOCATION

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 11-2-10

Time: 900

Sampler: R. Danisch

Air Temperature: 50

Other Weather Conditions: windy cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
2A	0	0.2	20.9	
2B	0	0.6	20.6	
3	0	0.1	20.8	
1A	0	0	20.6	
1B	0	0	20.5	
shop	0	0	21.0	

NOTES:

RECEIVED

JAN 05 2011

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hill

Facility & # Unifarm #388

Closure Landfarm

Finan Assur Liner

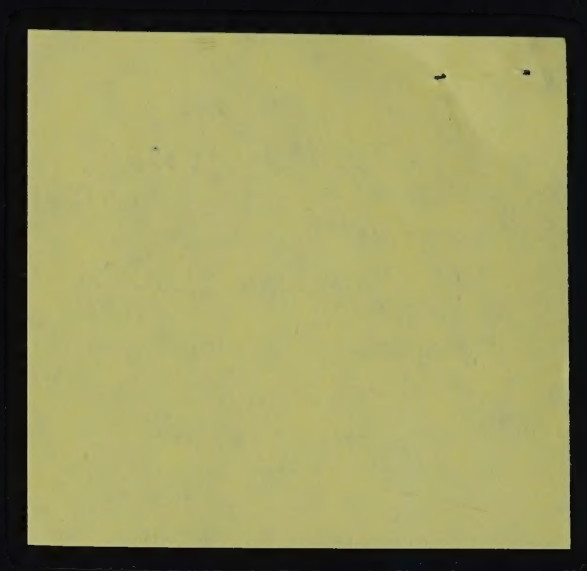
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

October 12, 2010

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

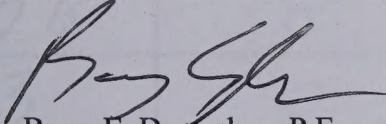
OCT 14 2010

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Martin:

Please find enclosed copies of my third quarter field sheets for the 17 landfills in which I monitor. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 9-20-10 Time: 1300

Sampler: B. DA

Air Temperature: 60

Other Weather Conditions: Cloudy - Rainy

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office	0	0	21.0	
1A	4.5	19.4 10	19.4	
1B	0	0	20.8	
2A	0	0.7	20.7	
2B	0	10.0	5.7	
3	0	1.0	20.7	

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OCT 13 2010

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

NOTES:

County Hill

Facility & # Landfarm #388

Closure Landfarm

Finan Assur Liner

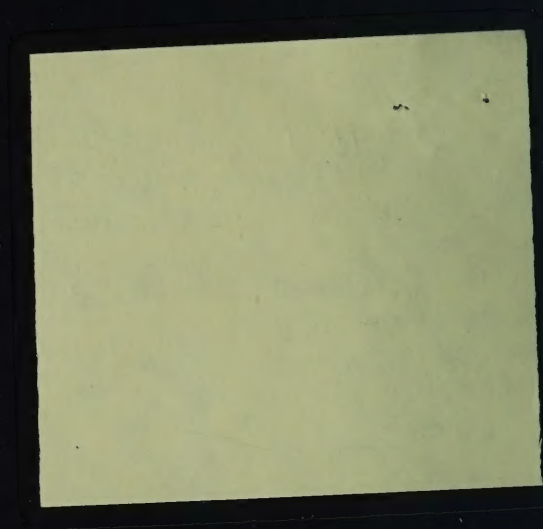
GW Corr Meas ~~Methane~~

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING

5531 York Road • Helena, MT 59602

Phone (406) 443-2938

Fax (406) 449-6140

July 27, 2010

Alas
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JUL 28 2010

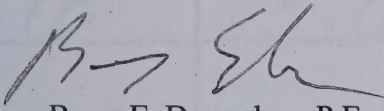
Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Martin:

At your request, please find enclosed copies of my first quarter field sheets for the 17 landfills in which I monitor. I apologize for not sending them to you earlier. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC


Barry E. Damschen, P.E.
Project Manager

Enclosures

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-18-10 Time: 100

Sampler: B. DAMSCHEN

Air Temperature: 40

Other Weather Conditions: Sunny, nice

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office/shop	0	0	21.0	
#2A	0.8	0	20.5	
2B	0	0	20.8	
#3	0	0	20.8	
1A	12.0	5.0	12.6	
1B	5.6	0	19.7	

NOTES:

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JUL 28 2010

DEPT. OF ENVIRO. QUAL.
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hill

Facility & # United #389

Closure Landfarm

Finan Assur Liner

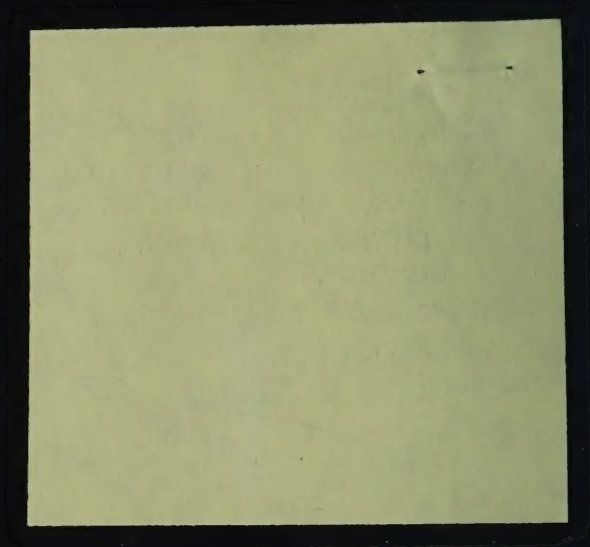
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING

5531 York Road • Helena, MT 59602

Phone (406) 443-2938

Fax (406) 449-6140

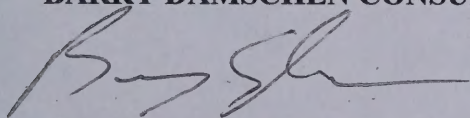
July 19, 2010

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Please find enclosed copies of my second quarter field sheets for the 17 landfills in which I monitor. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosures

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JUL 21 2010

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-25-10 Time: 1000

Sampler: B. Demick

Air Temperature: 75

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
1A	10.5	2.9	16.6	
1B	30.0	18.0	9.0	
2A	0	0	20.5	
2B	14.0	8.0	6.0	
3	0	0	20.8	
6 Site	0	0	20.8	

NOTES:

RECEIVED

JUL 21 2010

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Facility: United Disposal District Landfill

Date: 10-22-10 Time: 1:00

Air Temperature: 72

Other Weather Conditions: 3:00

License #: 389

Sample: 11/10/10

Location	Metrons	Carbon Dioxide	Oxygen	Comments
1A	10.2	5.7	16.2	
1B	30.0	18.0	9.0	
1A	0	0	50.2	
2A	14.0	8.0	5.0	
2B	0	0	50.8	
2C	0	0	50.8	

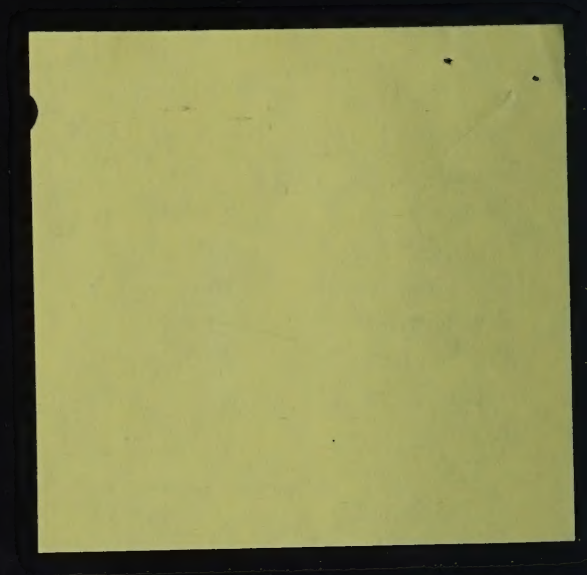
NOTES

RECEIVED

JUL 21 2010

DEPT OF ENVIRONMENT
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hall #389
Facility & # Unified Disposal District
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

December 29, 2009

Martin Van Oort
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Enclosed please find a summary of the Year 2009 methane monitoring at the Unified Disposal District landfill in Havre. A small amount of methane was detected in MG-2A and MG-1B. The methane generation seems to be reducing at these wells compared to previous monitoring periods.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

JAN 04 2010

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

RECEIVED

JAN 04 2010

UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS
(All results in percent of total sample)

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-18-09	0	0	0.1	0	0	0	CO ₂
		0	0	0.1	0	0	0	Methane
		21.0	21.2	21.0	21.1	20.8	20.8	Oxygen
2	6-30-09	0	0	0.1	2.1	0.3	0	CO ₂
		0	0	0.1	1.2	0	0	Methane
		21.0	21.0	20.8	19.2	20.7	21.0	Oxygen
3	9-30-09	0	0	1.9	0.2	0.7	0	CO ₂
		0	0	4.3	0	0	0	Methane
		21.1	19.8	19.3	20.6	19.6	21.1	Oxygen
4	11-18-09	0	0.2	0	0	0	0	CO ₂
		0	0.2	0	0	0	0	Methane
		21.0	20.5	20.8	21.0	21.0	21.0	Oxygen

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 11-18-07 Time: 1200

Sampler: B. Danker

Air Temperature: 45

Other Weather Conditions: cloudy

Location	Methane	Carbon Dioxide	Oxygen	Comments
off-site	0	0	21.0	
#3	0	0	21.0	
2A	0	0	21.0	
2B	0	0	21.0	
1A	0.2	0.2	20.5	
1B	0	0	20.8	

NOTES:

Facility: _____

Date: 1-18-07 Time: 1500

Latitude: _____

Operator: E. Beckner

At Temperature: _____

42
Cloud

Other Weather Conditions: _____

Location	Method	Color Index	Depth	Comments
200	0	0	21.0	
200	0	0	21.0	
200	0	0	21.0	
200	0	0	21.0	
100	0.2	0.2	20.2	
100	0	0	20.8	

County Hill

Facility & # Unifed #389

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

RECEIVED RT

October 13, 2009

OCT 15 2009

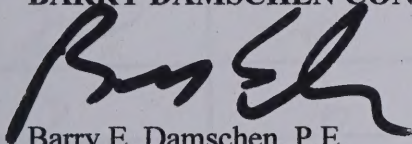
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Please find enclosed my field sheets for the third quarter, 2009 methane monitoring for my landfill clients. Generally, I did not see anything abnormal from what we have observed in the past. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosure 16 copies

Methane Monitoring Field Data

Facility: un. fed Malta Landfill

License #: 389
349

Date: 9-30-09 Time: 1100

Sampler: B. Damsch

Air Temperature: 49

Other Weather Conditions: Rainy - windy

Location	Methane	Carbon Dioxide	Oxygen	Comments
<u>office</u>	<u>0</u>	<u>0</u>	<u>21.1</u>	<u>0</u>
<u>1A</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	
<u>1B</u>	<u>43</u>	<u>7.9</u>	<u>19.3</u>	
<u>2A</u>	<u>0</u>	<u>0.2</u>	<u>20.6</u>	
<u>2B</u>	<u>0</u>	<u>0.7</u>	<u>19.6</u>	
<u>2C</u>	<u>0</u>	<u>0</u>	<u>21.0</u>	
<u>5</u>	<u>0</u>	<u>0</u>	<u>21.1</u>	

NOTES:

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OCT 15 2009

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Faculty Name

1-2-03

1-2-03

Other Written Comments

Location	Notes	Green Cards	Other	Comments
1A	0	0	21	C
1B	0	0	18	
1C	0	12	0	
1D	0	0	0	
1E	0	0	18	
1F	0	0	21	
1G	0	0	11	
1H	0	0	0	
1I	0	0	0	
1J	0	0	0	
1K	0	0	0	
1L	0	0	0	
1M	0	0	0	
1N	0	0	0	
1O	0	0	0	
1P	0	0	0	
1Q	0	0	0	
1R	0	0	0	
1S	0	0	0	
1T	0	0	0	
1U	0	0	0	
1V	0	0	0	
1W	0	0	0	
1X	0	0	0	
1Y	0	0	0	
1Z	0	0	0	

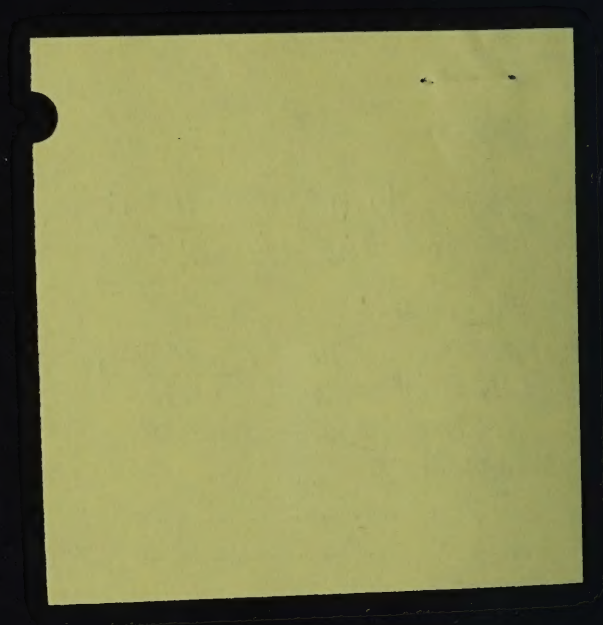
RECEIVED

RECEIVED

1-2-03

1-2-03

County Hill #389
Facility & # United Disposal Dist
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

July 7, 2009

RECEIVED

JUL 08 2009

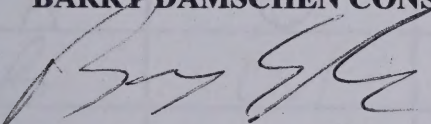
DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Please find enclosed my field sheets for the second quarter, 2009 methane monitoring for my landfill clients. Generally, I did not see anything abnormal from what we have observed in the past. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosure 15 copies

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-30

Time: 1800

Sampler: Danische

Air Temperature: 85

Other Weather Conditions: windy Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
shop	0	0	21.0	
2A	1.7	2.1	19.2	
2B	0	0.3	20.7	
#3	0	0	21.0	
1A	0	0	21.0	
1B	0.1	0.1	20.8	

NOTES:

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JUL 08 2009

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hill #389

Facility & # Unified Disposal District

Closure Landfarm

Finan Assur Liner

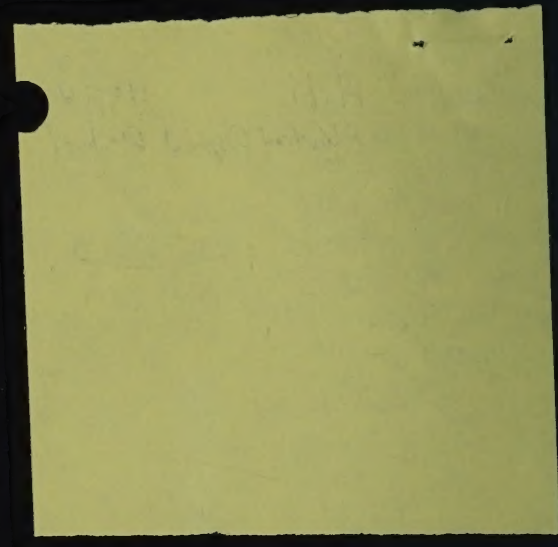
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

March 30, 2009

RECEIVED \$1

MAR 31 2009

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Martin Van Oort
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Martin:

Please find enclosed my field sheets for the first quarter, 2009 methane monitoring for my 16 landfill clients. We did find exceedences at Hardin and Sheridan County which is typical of previous events. Generally, I did not see anything abnormal from what we have observed in the past. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosure 16 copies

RECEIVED

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 3-18-09

Time: 800

Sampler: B. DAMSCHEN

Air Temperature: 50

Other Weather Conditions:

Calm-Sunny

[illegible]

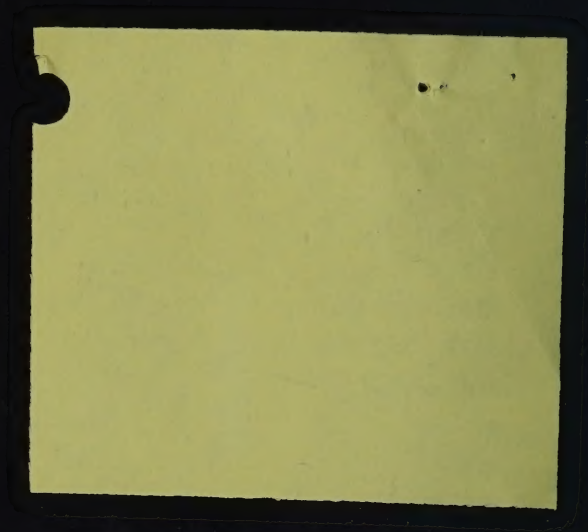
NOTES:

RECEIVED

MAR 3 1 2009

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

County Hill #389
Facility & # Unified
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

January 21, 2009

Mary Louise Hendrickson
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mary Louise:

Enclosed please find a summary of the Year 2008 methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1 and a small amount of methane was detected in MG-2. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area whereas MG-2 is located adjacent to the waste on the southeastern corner of the cell. The closest facility boundary is over 500 feet from the wells. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the wells and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. Your input on this would be appreciated.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

JAN 30 2009

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2-13-08	0	0	0	Frozen Lid	Frozen Lid	0	CO ₂
		0	0	0	Frozen Lid	Frozen Lid	0	Methane
		20.5	20.3	20.4	Frozen Lid	Frozen Lid	20.3	Oxygen
2	6-30-08	0	2.0	39.0	0.4	0.7	0.2	CO ₂
		0	1.9	39.5	0.5	2.1	0	Methane
		20.6	17.5	0.1	19.1	18.6	20.1	Oxygen
3	8-12-08	0	4.4	1.4	0	16.0	0	CO ₂
		0	7.7	2.3	0	1.8	0	Methane
		20.4	10.7	19.4	20.3	13.1	20.2	Oxygen
4	11-17-08	0	3.6	27.0	0	1.5	0	CO ₂
		0	5.0	29.0	0	0.5	0	Methane
		20.5	11.1	2.1	20.5	15.5	20.3	Oxygen

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 8.12.08 Time: 830

Sampler: B. Danick

Air Temperature: 55

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office	0	0	20.4	
1A	7.7	4.4	10.7	
1B	23	1.4	19.4	
2A	0	0	20.3	
2B	1.8	16.0	23.1	
3	0	0	20.2	

NOTES:

RECEIVED

OCT 31 2008

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility: Unified Disposal District Landfill

License #: 389

Date: 6-30-08 Time: 1300

Sampler: B. Damsch

Air Temperature: 90

Other Weather Conditions: Sunny

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office	0	0	20.6	
#1 A	1.9	2.0	17.5	
1 B	39.5	6.39.0	0.1	
#3	0	0.2	20.1	
#2 #1 A	0.5	0.4	19.1	
2 B	0.1	0.5	19.5	

NOTES:

B. Damsch
RECEIVED

AUG 07 2008

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility: United Disposal District Landfill

Date: 6-30-08 Time: 12:00

Air Temperature: 80

Other Weather Conditions: Clear

Location #: 284

Sample: 18-M-12-101

Location	Methane	Carbon Dioxide	Oxygen	Comments
Office	0	0	20.6	
A	1.1	1.0	17.2	
1-A	2.9	0.9	0.1	
43	0	0.2	20.1	
A	0.2	0.4	18.1	
B	0.1	0.2	18.2	

NOTES

RECEIVED

JUL 1 2008

Unit of Waste
Waste & Landfill
Unit of Waste

RECEIVED

APR 01 2008

Methane Monitoring Field Data

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility UNIFIED LANDFILL
Date 2-13-08 Time 300pm Sampler R. DANIEL
Barometer _____ Air Temperature 15°
Other Weather Conditions Wind - Sunny

Location office/shop (well/building/other) 20.5

Initial Readings: 0 0
Carbon Dioxide _____ Methane _____ Oxygen _____
Purge Time #13

Post-purge Readings:
Carbon Dioxide 0 Methane 0 Oxygen 20.3

Location North #1 (well/building/other) 20.3

Initial Readings: A. 0 0
Carbon Dioxide B. 0 Methane 0 Oxygen 20.4

Purge Time _____
Post-purge Readings: A. EAST #2 FROZE
Carbon Dioxide _____ Methane _____ Oxygen _____

B

C

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APR 01 1958

Time of day (hr:min)
Date & location
Your designation

Medium standing field data

UNITED STATES

R. D. Smith

2-13-05

120

Air Temperature

Humidity

W. 2-13-05

Other Weather Conditions

0.113/13.4

Location

Initial Readings

Carbon Dioxide

Methane

Oxygen

Page Time

Post-page Readings

Carbon Dioxide

Methane

Oxygen

Location

Initial Readings

Carbon Dioxide

Methane

Oxygen

Page Time

Post-page Readings

Carbon Dioxide

Methane

Oxygen

0.113/13.4



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

January 21, 2008

Mary Louise Hendrickson
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mary Louise:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1 and a small amount of methane was detected in MG-2. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area whereas MG-2 is located adjacent to the waste on the southeastern corner of the cell. The closest facility boundary is over 500 feet from the wells. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the wells and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. Your input on this would be appreciated.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

File
RECEIVED

FEB 11 2008

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

**UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)

LOCATION

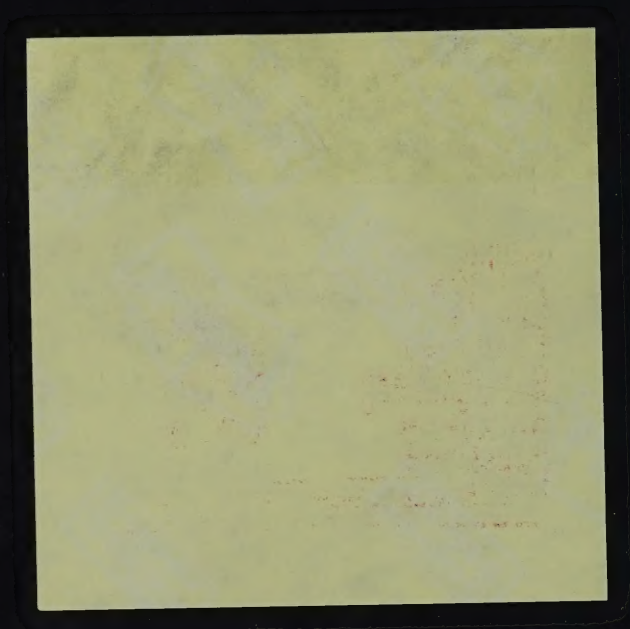
Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-13-07	0	1.8	0.6	2.5	0.2	0	CO ₂
		0	1.4	1.1	0.6	0	0	Methane
		20.7	18.2	19.8	14.6	19.9	20.6	Oxygen
2	5-21-07	0	1.6	13.5	0.8	0.7	0	CO ₂
		0	1.6	18.0	1.0	2.1	0	Methane
		20.8	18.6	7.5	19.6	18.6	20.6	Oxygen
3	9-11-07	0	5.2	32.0	4.0	0.4	0	CO ₂
		0	14.0	33.5	0.1	0	0	Methane
		20.6	Broke	Broke	Broke	Broke	Broke	Oxygen
4	12-6-07	0	8.5	30.0	Froze	2.0	0	CO ₂
		0	11.5	32.0	Froze	0	0	Methane
		20.6	5.4	3.2	Froze	19.0	20.5	Oxygen

4	15-0-03	50.0	2.4	3.5	1.00	10.0	30.2	Oxygen
		0	1.2	35.0	1.00	0	0	Methane
		0	8.2	30.0	1.00	5.0	0	CO ₂
2	0-11-03	50.0	1.00	1.00	1.00	1.00	1.00	Oxygen
		0	14.0	33.2	0.1	0	0	Methane
		0	2.5	35.0	4.0	0.4	0	CO ₂
5	2-21-03	50.8	18.0	1.2	10.0	18.0	50.0	Oxygen
		0	1.0	18.0	1.0	5.1	0	Methane
		0	1.0	13.2	0.8	0.1	0	CO ₂
1	3-12-03	50.3	18.5	10.8	14.0	10.0	50.0	Oxygen
		0	1.4	1.1	0.0	0	0	Methane
		0	1.8	0.0	5.2	0.5	0	CO ₂
Опция	Две	Опция	MG-1V	MG-1B	MG-3A	MG-3B	MG-3	

LOCATION

(All samples to be sent to the nearest laboratory)
 METHANE MONITORING RESULTS
 DAILY DISPOSAL DISTRICT LANDFILL

County Hill
Facility & # Unified Disposal #389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

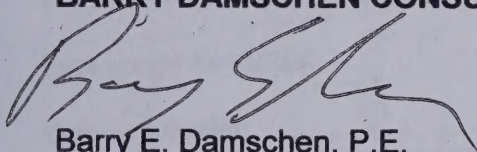
October 24, 2007

Mary Louise Hendrickson
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mary:

Please find enclosed my field sheets for the third quarter, 2007 methane monitoring for my 16 landfill clients. I did not see anything abnormal from what we have observed in the past. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC



Barry E. Damschen, P.E.
Project Manager

Enclosure 16 copies

RT mllh
RECEIVED

OCT 26 2007

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Section 100 of the Code of Laws of the State of South Carolina, 1901, Chapter 1, Section 100, is hereby amended to read as follows:

SECTION 100. (a) The Board of Education of the State of South Carolina shall have the honor to certify that the following is a true and correct copy of the original of the same as the same appears in the records of the Board of Education of the State of South Carolina.

Witness my hand and seal of office this 1st day of January, 1901.

Methane Monitoring Field Data

Facility Unified Landfill
Date 9-11-07 Time 800 Sampler B. Damsch
Barometer _____ Air Temperature 70°
Other Weather Conditions Sunny

Location office/shop (well/building/other)

Initial Readings: 0 0 20.6

#1 Carbon Dioxide 5.2 Methane 14.0 Oxygen Break

Purge Time 32.0 33.5 Break

Post-purge Readings: 4.0 0.1 Break

#2 Carbon Dioxide 0.4 Methane 0 Oxygen 11

Location _____ (well/building/other)

#3 Initial Readings: 0 0 Break

Purge Time _____

Post-purge Readings:
Carbon Dioxide _____ Methane _____ Oxygen _____

STATION INFORMATION

Station Name: _____
Date: _____
Time: _____
Observer: _____
Other Weather Conditions: _____

Location: _____
Elevation: _____
Latitude: _____
Longitude: _____
Time of Day: _____
Month: _____
Year: _____

Location: _____
Elevation: _____
Latitude: _____
Longitude: _____
Time of Day: _____
Month: _____
Year: _____

RECEIVED

AUG 28 2007

Methane Monitoring Field Data

SW-0389-00

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Facility

Confined Landfill

Date

5-21-07

Time

1300

Sampler

BD Ansch

Barometer

Air Temperature

50's

Other Weather Conditions

Raining

Location

~~SW-0389~~ #1

(well/building/other)

Initial Readings:

Carbon Dioxide

~~0.8~~ A 1.6

Methane

1.6

Oxygen

18.6

Purge Time

B

Post-purge Readings:

Carbon Dioxide

13.5

Methane

18.0

Oxygen

7.5

Location

2A

(well/building/other)

Initial Readings:

Carbon Dioxide

~~1.6~~ 0.8

Methane

1.0

Oxygen

19.6

Purge Time

2B

Post-purge Readings:

Carbon Dioxide

0.7

Methane

2.1

Oxygen

18.6

#3

0

0

20.6

Office

0

0

20.8

RECEIVED

Methane Monitoring Field Data

Wetland Landfill

Date 5-21-07 Time 1300 Sampled 10/10/07
Air Temperature 20°

10/10/07

Location (well/ponding area) 10/10/07
Initial Readings 1.0
Carbon Dioxide 1.0
Page Time 10/10/07

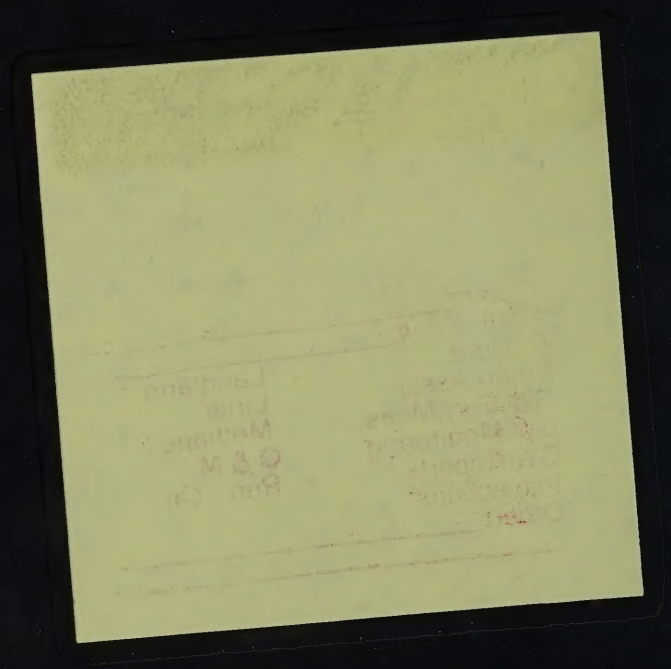
Post-page Readings 1.0
Carbon Dioxide 1.0
Location (well/ponding area) 10/10/07

Initial Readings 1.0
Carbon Dioxide 1.0
Page Time 10/10/07

Post-page Readings 1.0
Carbon Dioxide 1.0
Location (well/ponding area) 10/10/07

County Hill Co.
Facility & # Unified #389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other:

County Hill
Facility & # Unified # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

April 10, 2007

Mary Louise Hendrickson
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mary:

Please find enclosed my field sheets for the first quarter, 2007 methane monitoring for my 15 landfill clients. I did not see anything abnormal from what we have observed in the past. Please call me if you have any questions.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosure 15 copies

RECEIVED

APR 11 2007

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

It is not a good idea to
send a letter to me. I am not
in the office. Please call me if you have any
questions.

Yours truly,
J. Edgar Hoover

100-100000

100-100000

Methane Monitoring Field Data

Facility UNIFIED LANDFILL

Date 3-13-07 Time 400

Sampler BD

Barometer _____

Air Temperature 45°

Other Weather Conditions Sunny

Location Office / Shop (well/building/other)

Initial Readings:

Carbon Dioxide 0 Methane 0 Oxygen 20.7

Purge Time #3

Post-purge Readings:

Carbon Dioxide 0 Methane 0 Oxygen 20.6

Location 1A (well/building/other)

Initial Readings: 1.8 1.4 18.2

Carbon Dioxide 0.6 Methane 1.1 Oxygen 19.8

Purge Time 2A 0.6 14.6

Post-purge Readings: 2.5 0.6 14.6

Carbon Dioxide 0.2 Methane 0 Oxygen 19.9

man



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

#389
Hill

January 10, 2007

Mary Louise Hendrickson
Montana Dept. of Environ. Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mary Louise:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1. Methane was also detected the second quarter in MG-2 but has tailed off compared to 2004. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area whereas MG-2 is located adjacent to the waste on the southeastern corner of the cell. The closest facility boundary is over 500 feet from the wells. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the wells and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. We are considering the relocation of these wells further from the waste limits and closer to the property boundary. Your input on this would be appreciated..

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

JAN 29 2007

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

BARRETT DANCING COMPANY

1000 Broadway, New York, N.Y. 10003

January 10, 1967

Barrett Dancing Company
1000 Broadway, New York, N.Y. 10003
Barrett Dancing Company
1000 Broadway, New York, N.Y. 10003

Dear Mr. [Name]:

Barrett Dancing Company is pleased to announce the opening of its new season of dancing. The season will begin on January 15th at the [Venue] and will continue through the month of February. The season will feature a variety of dances, including ballroom, modern, and contemporary. The season will be a great success and we hope you will enjoy it. The season will be a great success and we hope you will enjoy it. The season will be a great success and we hope you will enjoy it.

I am sure you will find the season very enjoyable. I am sure you will find the season very enjoyable. I am sure you will find the season very enjoyable.

Sincerely,

Barrett Dancing Company

RECEIVED

JAN 11 1967

Barrett Dancing Company

1000 Broadway, New York, N.Y. 10003

cc: [Name]

Barrett

UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2-27-06	0	4.2	33.0	2.3	Cap Frozen On	0	CO ₂
		0	17.0	29.0	1.0		0	Methane
		20.8	6.8	1.1	14.0		20.7	Oxygen
2	5-22-06	0	6.1	33.0	6.5	0.2	0	CO ₂
		0	16.5	32.5	3.3	0.4	0	Methane
		20.8	5.6	0.6	9.3	20.0	20.7	Oxygen
3	9-11-06	0	2.5	0.5	0.3	0	0	CO ₂
		0	12.5	0.9	0	0	0	Methane
		20.7	11.6	20.3	20.0	20.5	20.5	Oxygen
4	11-16-06	0	2.5	0.5	1.4	0	0	CO ₂
		0	11.5	0.9	0.3	0.1	0	Methane
		20.6	12.5	19.5	18.4	20.4	20.4	Oxygen

Operator	Date	Office	MC-1A	MC-1B	MC-5A	MC-5B	MC-3	Oxidizer
4	11-10-00	50.0	15.2	10.2	18.4	50.4	50.4	Oxidizer
		0	11.2	0.0	0.2	0.1	0	Methane
		0	5.2	0.2	1.4	0	0	CO ₂
3	0-11-00	50.2	11.0	50.2	50.0	50.2	50.2	Oxidizer
		0	15.2	0.0	0	0	0	Methane
		0	5.2	0.2	0.2	0	0	CO ₂
5	2-22-00	50.8	2.0	0.0	0.3	50.0	50.1	Oxidizer
		0	10.2	35.2	3.3	0.4	0	Methane
		0	0.1	33.0	0.2	0.5	0	CO ₂
1	5-23-00	50.8	0.8	1.1	14.0	On Exhaust C ₂ H ₆	50.1	Oxidizer
		0	13.1	50.0	1.0		0	Methane
		0	4.5	33.0	5.3		0	CO ₂
Operator	Date	Office	MC-1A	MC-1B	MC-5A	MC-5B	MC-3	

LOCATION

(All results in percent of total sample)
 METHANE MONITORING RESULTS
 UNIFIED DISTRICT LANDFILL

County Hill
Facility & # Unified Disposal District
Closure Landfarm
Finan Assur Exon Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____



RECEIVED

JUL 31 2006

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility Un-fired Disposal Ditch

Date 2-27-06 Time 1600 Sampler BD

Barometer _____ Air Temperature 25°

Other Weather Conditions windy cloudy

Location #1 A (well/building/other)

Initial Readings:

Carbon Dioxide 4.2 Methane 17.0 Oxygen 6.8

Purge Time B

Post-purge Readings:

Carbon Dioxide 33.0 Methane 29.0 Oxygen 1.1

Location 2A (well/building/other)

Initial Readings:

Carbon Dioxide 2.3 Methane 1.0 Oxygen 14.0

Purge Time 2B
frozen on

Post-purge Readings:

Carbon Dioxide #30 Methane 0 Oxygen 20.7

Offline

0

0

20.8

RECEIVED

JUL 31 2006

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility Unifed Landfill
Date 5-12-06 Time 1500 Sampler BD
Barometer _____ Air Temperature 90
Other Weather Conditions Sunny - calm

Location office / shop (well/building/other)

Initial Readings:

Carbon Dioxide 0 Methane 0 Oxygen 20.8

Purge Time _____

Post-purge Readings:

Carbon Dioxide _____ Methane _____ Oxygen _____

Location #2 (well/building/other)

Initial Readings: A
Carbon Dioxide 6.5 Methane 3.3 Oxygen 9.3

Purge Time B

Post-purge Readings:

Carbon Dioxide 0.2 Methane 0.4 Oxygen 20.0

RECEIVED

JUL 21 2002

Dept. of State
Office of the Secretary
Washington, D.C.

Memorandum for the Secretary

Subject: [Illegible]

Date: 7-11-02

TO: [Illegible]

FROM: [Illegible]

Re: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

5. [Illegible]

6. [Illegible]

7. [Illegible]

8. [Illegible]

9. [Illegible]

10. [Illegible]

11. [Illegible]

12. [Illegible]

13. [Illegible]

14. [Illegible]

15. [Illegible]

16. [Illegible]

17. [Illegible]

18. [Illegible]

19. [Illegible]

20. [Illegible]

21. [Illegible]

22. [Illegible]

23. [Illegible]

24. [Illegible]

25. [Illegible]

26. [Illegible]

27. [Illegible]

28. [Illegible]

RECEIVED

JUL 31 2006

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Methane Monitoring Field Data

Facility Unifac

Date _____ Time _____ Sampler _____

Barometer _____ Air Temperature _____

Other Weather Conditions _____

Location _____ (well/building/other)

Initial Readings: A
Carbon Dioxide 0.1 Methane 16.5 Oxygen 5.6

Purge Time _____
Post-purge Readings: B
Carbon Dioxide 33.0 Methane 32.5 Oxygen 0.6

Location North burrow Area (well/building/other)

Initial Readings:
Carbon Dioxide 0 Methane 0 Oxygen 20.8

Purge Time #3
Post-purge Readings:
Carbon Dioxide 0 Methane 0 Oxygen 20.7

RECEIVED

M 21 2008

Don't let your company
lose a business
that management can't

Midwest Monitoring Field Data

10/21/08

Location _____ (withholding/other)

Initial Reading _____

Carbon Dioxide _____ 0.1

Range Time _____

Post-range Reading _____

Carbon Dioxide _____ 37.0

_____ 2.2

_____ 0.2

Location _____ (withholding/other)

Initial Reading _____

Carbon Dioxide _____ 0

Range Time _____

Post-range Reading _____

Carbon Dioxide _____ 0

_____ 50.8

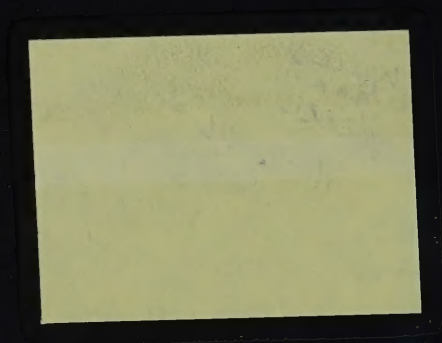
_____ 50.7

County Hill - Disposal District
Facility & # #389
Closure Unified
Finan Assur Landfarm
GW Corr Meas Liner
GW Monitoring Methane
GW Reports O & M
Inspections Run - On
Other: _____



updated
than
all

11-6-06





BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

May 19, 2006

Mary Louise Hendrickson
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Re: Unified Landfill Methane Monitoring

Dear Mary:

This letter is a follow-up to our recent meeting on May 15, 2006 in which we discussed your May 9 letter to Clay Vincent. In your letter you expressed concern regarding the high concentrations of methane in wells MG-1 and MG-2. As we discussed on May 15, these two monitoring wells are located extremely close to the waste and we are not surprised at the high readings. You indicated in your letter the need to monitor the methane levels in the soil borrow area located north of the waste area. As I discussed, there is a ± 30 foot barrier of natural clay between the waste and the borrow area which will preclude any methane from migrating to the north borrow area. After we discussed this, we decided that this should not cause a problem. To be confident, I will monitor this area in June when I conduct the second quarter monitoring.

In your letter, you also indicated the need to monitor the buildings at the site. As we discussed, we do monitor the equipment building each quarter as is noted on my annual submittal. We have never had any methane detected in the building, which is not surprising since the building is over $\frac{1}{2}$ mile away from the waste area. There are no other buildings on the site.

Finally, you indicated the need to update the methane sampling and analysis plan for the facility since the plan that we are operating under is over 10 years old. I will discuss this with the Unified Board since I need their approval on items that are not included in my contract. You indicated that we should submit this plan within 90 days. It most likely will take a little longer than this since I need Board approval. Therefore I am requesting an extension of 90 additional days.

RECEIVED

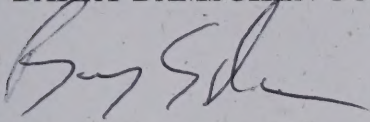
MAY 23 2006

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

I hope this accurately summarizes our conversation. If you have any questions please do not hesitate to call me.

Very truly yours,

BARRY DAMSCHEN CONSULTING, LLC

A handwritten signature in dark ink, appearing to read "Barry E. Damschen", written over the company name.

Barry E. Damschen, P.E.
Project Manager

Cc: Clay Vincent



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

February 3, 2006

Pat Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

FEB 23 2006

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

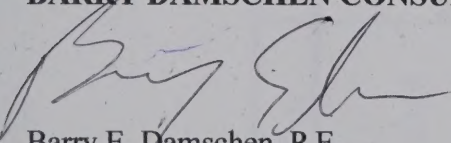
Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1. An exceedence also occurred the second quarter in MG-2 but has tailed off compared to 2004.. Corresponding with those methane detections were a rise in carbon dioxide and a lowering of oxygen concentrations. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area whereas MG-2 is located adjacent to the waste on the southeastern corner of the cell. The closest facility boundary is over 500 feet from the wells. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the well and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. Perhaps considerations can be made to relocate the appropriate wells further from the waste limits and closer to the property boundary. Your input on this would be appreciated..

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC


Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

NOV 19 1964

November 19, 1964

Mr. [Name]

Ministry of the Interior

100 King Street West

Toronto, Ontario

Dear Sir:

I am writing to you in response to the letterhead memorandum dated October 28, 1964, and captioned "Request for information regarding the activities of the [Name] in the [Location] area." The information requested in your letter is being provided to you in the enclosed report. This report contains information regarding the activities of the [Name] in the [Location] area, as well as information regarding the activities of the [Name] in the [Location] area. The information contained in this report is confidential and should be handled accordingly.

I am sure that the information contained in this report will be of assistance to you in your ongoing investigation.

Sincerely,

HARRY DANIELSON (100-100000)

[Signature]

Harry Danielson

100 King Street West

Toronto, Ontario

Enclosure

**UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS**
(All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	2-10-05	0	8.6	24.3	0.8	0.3	0	CO ₂
		0	12.0	23.6	0.9	0	0	Methane
		20.9	2.4	0.1	13.8	20.6	20.9	Oxygen
2	6-29-05	0	0.1	10.5	4.1	0.3	0.3	CO ₂
		0	0	15.0	7.8	0.6	0	Methane
		17.1	17.1	9.5	6.2	16.7	17.0	Oxygen
3	9-2-05		2.1	35.0	6.2	0.4	0	CO ₂
		locked	2.0	32.0	1.2	0	0	Methane
			N.O.	N.O.	N.O.	N.O.	N.o.	Oxygen
4	11-4-05	0	2.0	28.0	0	0.4	0	CO ₂
		0	5.6	29.5	0	0	0	Methane
		20.6	16.3	4.3	20.7	19.6	20.8	Oxygen

N.O. = Not Operational



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

January 5, 2005

Pat Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

389
Hill
RECEIVED

JAN 18 2005

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1. Exceedences also occurred the first two quarters in MG-2 but tailed off significantly the last two quarters. Corresponding with those methane detections were a rise in carbon dioxide and a lowering of oxygen concentrations. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area whereas MG-2 is located adjacent to the waste on the southeastern corner of the cell. The closest facility boundary is over 500 feet from the wells. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the well and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. Perhaps considerations can be made to relocate the appropriate wells further from the waste limits and closer to the property boundary. Your input on this would be appreciated..

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS
 (All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
1	3-22-04	0	8.5	16.0	0.6	0	0.1	CO ₂
		0	3.8	12.5	7.0	0	0	Methane
		20.5	8.6	4.2	15.8	20.5	19.9	Oxygen
2	6-9-04	0	0.1	0.9	1.4	0.8	0.1	CO ₂
		0	0	1.0	13.0	7.5	0	Methane
		20.7	20.5	19.2	9.9	16.5	20.5	Oxygen
3	9-2-04	0	6.0	17.0	4.1	0.4	0.1	CO ₂
		0	12.0	20.0	4.1	1.0	0	Methane
		20.7	8.5	2.2	10.2	20.1	20.7	Oxygen
4	11-11-04	0	8.1	24.1	2.9	0.1	0	CO ₂
		0	11.6	26.5	2.5	0.1	0	Methane
		20.9	5.5	0.3	15.4	19.9	20.6	Oxygen

Order	Date	Office	MC-1A	MC-1B	MC-2A	MC-5B	MC-3	Ozone
4	11-11-04	500	22	03	124	100	500	Ozone
		0	110	502	52	01	0	Wetness
		0	81	501	50	01	0	CO ²
3	0-3-04	500	82	55	103	501	500	Ozone
		0	150	500	41	10	0	Wetness
		0	90	150	41	04	01	CO ²
5	0-8-04	500	502	103	00	102	502	Ozone
		0	0	10	130	12	0	Wetness
		0	01	00	14	08	01	CO ²
1	2-55-04	500	80	45	128	502	100	Ozone
		0	38	152	10	0	0	Wetness
		0	82	100	00	0	01	CO ²
Order	Date	Office	MC-1A	MC-1B	MC-2A	MC-5B	MC-3	

LOCATION

(All results in percent of dry sample)
 METHANE MONITORING RESULTS
 UNITED STATES DISTRICT COURT

389
Hill



BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

February 6, 2004

Pat Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well MG-1A and M-1B. A fair amount of methane was also detected in MG-2A & 2B but no exceedences occurred. Corresponding with those methane detections were a rise in carbon dioxide and a lowering of oxygen concentrations. Well MG-1 is situated on the north side of the landfill, about 40 feet from the edge of the fill area. The closest facility boundary is over 500 feet from the well to the north. The nearest structure is a gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the well and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. Perhaps considerations can be made to relocate the appropriate wells prior to the opening of any additional areas which is currently being contemplated by the Solid Waste Board.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

cc: Clay Vincent, Hill County Sanitarian

Enclosure

RECEIVED

FEB 09 2004

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

**UNIFIED DISPOSAL DISTRICT LANDFILL
METHANE MONITORING RESULTS**

(All results in percent of total sample)

LOCATION

Quarter	Date	Office	MG-1A	MG-1B	MG-2A	MG-2B	MG-3	
4	10-21-02	0.1	5.5	6.3	0.7	0.4	0.4	CO ₂
		0	9.2	5.3	1.3	1.5	0	Methane
		NO	NO	NO	NO	NO	NO	Oxygen
1	3-20-03	0	8.0	8.3	0.5	0.6	0.3	CO ₂
		0	9.5	7.1	2.6	2.4	0	Methane
		NO	NO	NO	NO	NO	NO	Oxygen
2	7-2-03	0	NO	NO	NO	NO	NO	CO ₂
		0	39.3	9.8	3.9	2.6	0	Methane
		20.9	0.1	9.6	16.6	19.5	20.9	Oxygen
3	9-25-03	0	0.1	4.4	0.8	0.2	0.2	CO ₂
		0	0	4.1	3.3	3.2	0	Methane
		20.9	20.6	16.3	18.4	19.4	20.7	Oxygen
4	11-13-03	0	1.9	24.0	0.2	0.1	0	CO ₂
		0	1.8	16.5	0.7	1.0	0	Methane
		20.6	18.2	0.4	20.2	20.3	20.6	Oxygen

NO - Not Operational due to equipment malfunction

389

County Hill/Blaine
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Closure Landfarm
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GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____

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 3. **SW Con Meas**
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ENTRANCO

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Development
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Surveying
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Environmental
Resources
•
Ports/Airports
•
Planning
•
Water/
Wastewater

October 17, 2002

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

OCT 18 2002

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Once again, exceedences were noted in methane monitoring well M-1A and M-1B. Corresponding with those methane detections were a rise in carbon dioxide and a lowering of oxygen concentrations.

This well is situated on the north side of the landfill, about 40 feet from the edge of the fill area. The closest facility boundary is over 500 feet from the well to the north. The nearest structure is the gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the well and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. As the fill area closes and waste is placed into new lined trenches in the future, the wells will have to be relocated. Perhaps considerations can be made to relocate the appropriate wells prior to the opening of any additional areas.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHE-ENTRANCO

Bruce L. Siegmund
Senior Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian
Barry Damschen Consulting

PO Box 4817
2030 11th Avenue
Suite 11
Helena, Montana
59604
Telephone 406 449 8627
Fax 406 449 8631

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FAX: 773-936-5001
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100-100

ENVIRONMENT

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	6/25/2002
Quarter	2
Constituent	carbon dioxide
MG-1A	8.5
MG-1B	7.18
MG-2A	0.02
MG-2B	0.3
MG-3	0.01
Office	0
Barometer	
Comment	

Date	6/25/2002
Quarter	2
Constituent	methane
MG-1A	8.76
MG-1B	7.02
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	6/25/2002
Quarter	2
Constituent	oxygen
MG-1A	7.65
MG-1B	6.53
MG-2A	19.1
MG-2B	20
MG-3	20.9
Office	20.9
Barometer	
Comment	

1. Name of the person or organization

(Please print clearly in block letters)

1. Name of the person or organization	
2. Address	
3. City	
4. State	
5. Zip	
6. Telephone	
7. Fax	
8. E-mail	
9. Website	
10. Other	
11. Name of the person or organization	
12. Address	
13. City	
14. State	
15. Zip	
16. Telephone	
17. Fax	
18. E-mail	
19. Website	
20. Other	
21. Name of the person or organization	
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23. City	
24. State	
25. Zip	
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28. E-mail	
29. Website	
30. Other	

0-1

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

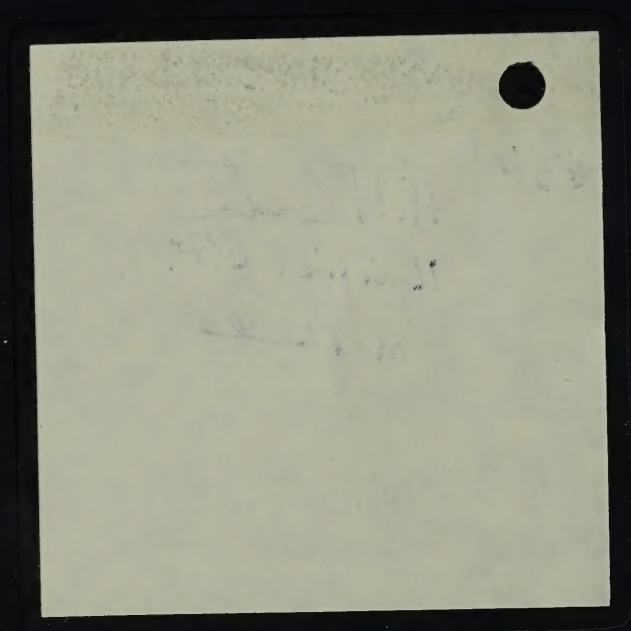
Date	9/12/2002
Quarter	3
Constituent	carbon dioxide
MG-1A	9.29
MG-1B	11.6
MG-2A	0.4
MG-2B	0.04
MG-3	0.11
Office	0
Barometer	
Comment	

Date	9/12/2002
Quarter	3
Constituent	methane
MG-1A	22.5
MG-1B	10.2
MG-2A	1.15
MG-2B	1.32
MG-3	0
Office	0
Barometer	
Comment	

Date	9/12/2002
Quarter	3
Constituent	oxygen
MG-1A	2.5
MG-1B	6.3
MG-2A	19
MG-2B	20
MG-3	20.8
Office	20.9
Barometer	
Comment	

#3889

Hill County
Unified L.F.
Methuen





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Wastewater

RECEIVED

APR 17 2002

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

April 12, 2002

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. Exceedences were noted in methane monitoring well M-1A and M-1B. Corresponding with those methane detections were a rise in carbon dioxide and a lowering of oxygen concentrations. This well is situated on the north side of the landfill, about 40 feet from the edge of the fill area. The closest facility boundary is over 500 feet from the well to the north. The nearest structure is the gate house and shop, which are some 1,500 feet from the waste fill area. Because of the location of the well and the location of the facility boundary, we feel that there is no need to take any action as a response to these occurrences of methane. As the fill area closes and waste is placed into new lined trenches in the future, the wells will have to be relocated. Perhaps considerations can be made to relocate the appropriate wells prior to the opening of any additional areas.

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Sincerely,

DAMSCHEN-ENTRANCO

Bruce L. Siegmund
Senior Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian
Barry Damschen Consulting

enclosures

PO Box 4817
2030 11th Avenue
Suite 11
Helena, Montana
59604
Telephone 406 449 8627
Fax 406 449 8631

ENVIRONMENT

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	9/13/2001
Quarter	3
Constituent	carbon dioxide
MG-1A	6.1
MG-1B	5.8
MG-2A	0
MG-2B	0.73
MG-3	0
Office	0
Barometer	
Comment	

Date	9/13/2001
Quarter	3
Constituent	methane
MG-1A	12
MG-1B	10.5
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	9/13/2001
Quarter	3
Constituent	oxygen
MG-1A	8.3
MG-1B	12
MG-2A	20.9
MG-2B	20.1
MG-3	20.9
Office	20.9
Barometer	
Comment	

Unified Disposal District Landfill Methane Monitoring Report

(results posted in percent of total sample)

Date	0/10/2001
Quarter	4
Constituent	carbon dioxide
MG-1A	5.9
MG-1B	4.18
MG-2A	0
MG-2B	0.63
MG-3	0
Office	0
Barometer	
Comment	

Date	0/10/2001
Quarter	4
Constituent	methane
MG-1A	4.1
MG-1B	4.85
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	0/10/2001
Quarter	4
Constituent	oxygen
MG-1A	6.05
MG-1B	13.8
MG-2A	20.1
MG-2B	20.2
MG-3	20.9
Office	20.9
Barometer	
Comment	

Unified Disposal District Landfill Metthane Monitoring Report
(results posted in percent of total sample)

Date	1/7/2002
Quarter	1
Constituent	carbon dioxide
MG-1A	9.02
MG-1B	9.5
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

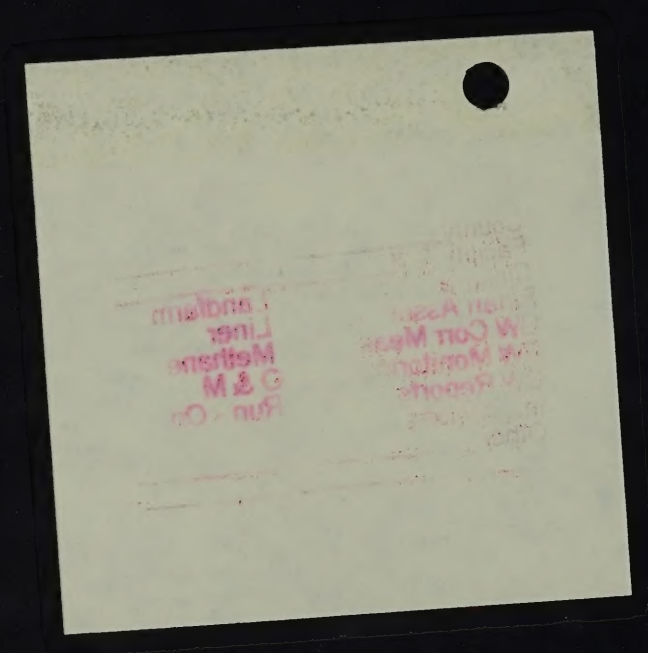
Date	1/7/2002
Quarter	1
Constituent	methane
MG-1A	10.4
MG-1B	11.4
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	1/7/2002
Quarter	1
Constituent	oxygen
MG-1A	7.9
MG-1B	10.1
MG-2A	20.9
MG-2B	20.9
MG-3	20.9
Office	20.9
Barometer	
Comment	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

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389 County Blair (Hill Blair + Chatham)
Facility & # Unified
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____





ENTRANCO

Transportation
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Construction
Management
•
Development
•
Surveying
•
Environmental
Resources
•
Ports/Airports
•
Planning
•
Water/
Wastewater

389
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AUG 21 2001

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

August 16, 2001

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. No exceedences were noted, but low concentrations of methane were observed in well MG-1. The occurrences do not appear to be long-term events, as the concentrations vary widely over time.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN-ENTRANCO

Bruce L. Siegmund
Senior Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian

PO Box 4817
2030 11th Avenue
Suite 11
Helena, Montana
59604
Telephone 406 449 8627
Fax 406 449 8631

ENVIRONMENT

The following information is for the use of the public and is not to be used for any other purpose. The information is for the use of the public and is not to be used for any other purpose.

The following information is for the use of the public and is not to be used for any other purpose.

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Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	6/26/01
Quarter	2
Constituent	carbon dioxide
MG-1A	0.6
MG-1B	2
MG-2A	0
MG-2B	0.4
MG-3	0
Office	0
Barometer	
Comment	

Date	6/26/01
Quarter	2
Constituent	methane
MG-1A	3
MG-1B	4.85
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	6/26/01
Quarter	2
Constituent	oxygen
MG-1A	19.6
MG-1B	17.7
MG-2A	206
MG-2B	20.2
MG-3	20.9
Office	20.9
Barometer	
Comment	

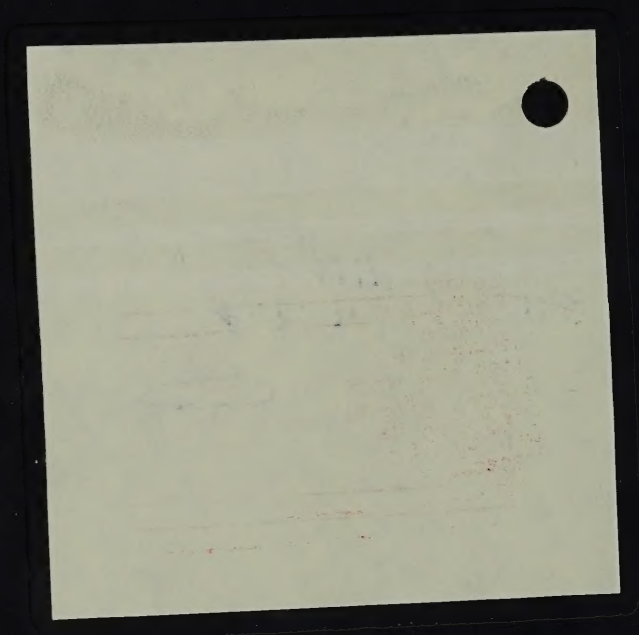
Unified Disposal District Landfill Metthane Monitoring Report
(results posted in percent of total sample)

Date	1/18/01
Quarter	1
Constituent	carbon dioxide
MG-1A	1.01
MG-1B	0.41
MG-2A	0.1
MG-2B	0.25
MG-3	0
Office	0
Barometer	
Comment	

Date	1/18/01
Quarter	1
Constituent	methane
MG-1A	0.4
MG-1B	0.35
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	1/18/01
Quarter	1
Constituent	oxygen
MG-1A	19.9
MG-1B	20.1
MG-2A	20.8
MG-2B	20.7
MG-3	20.9
Office	20.9
Barometer	
Comment	

389 County Hill
Facility & # Unified
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____





ENTRANCO

Transportation
•
Construction
Management
•
Development
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Surveying
•
Environmental
Resources
•
Ports/Airports
•
Planning
•
Water/
Wastewater

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MAR 07 2001

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

February 28, 2001

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. No exceedences were noted, but low concentrations of methane were observed in wells MG-1A and MG-1B. The occurrences do not appear to be long-term events, as the concentrations vary widely over time.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

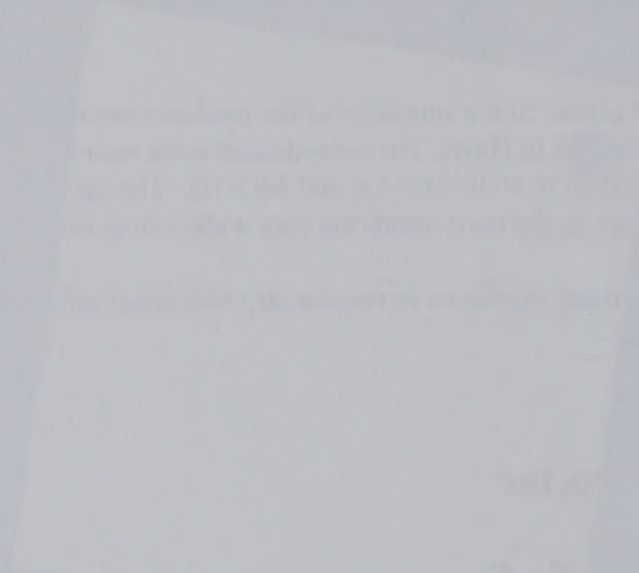
ENTRANCO, INC

Walter E Ludlow, PE
Project Engineer

Enclosures

CC: Clay Vincent, Hill County Sanitarian

PO Box 4817
2030 11th Avenue
Suite 11
Helena, Montana
59604
Telephone 406 449 8627
Fax 406 449 8631



ENVIRONMENT

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	9/26/00
Quarter	3
Constituent	carbon dioxide
MG-1A	1.91
MG-1B	0.91
MG-2A	0
MG-2B	0.65
MG-3	0.09
Office	0
Barometer	
Comment	

Date	9/26/00
Quarter	3
Constituent	methane
MG-1A	3.6
MG-1B	4.91
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	9/26/00
Quarter	3
Constituent	oxygen
MG-1A	17.5
MG-1B	18
MG-2A	20.9
MG-2B	20.7
MG-3	20.9
Office	20.9
Barometer	
Comment	

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	10/25/00
Quarter	4
Constituent	carbon dioxide
MG-1A	0
MG-1B	0.05
MG-2A	0.6
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	10/25/00
Quarter	4
Constituent	methane
MG-1A	0
MG-1B	0.08
MG-2A	0.3
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	10/25/00
Quarter	4
Constituent	oxygen
MG-1A	20.9
MG-1B	16.8
MG-2A	18
MG-2B	20.8
MG-3	20.8
Office	20.9
Barometer	
Comment	

Project Summary in brief (if any)

Project Summary	
Project Name	[Illegible]
Project Number	[Illegible]
Project Manager	[Illegible]
Project Sponsor	[Illegible]
Project Start Date	[Illegible]
Project End Date	[Illegible]
Project Status	[Illegible]
Project Budget	[Illegible]
Project Risk	[Illegible]
Project Complexity	[Illegible]
Project Importance	[Illegible]
Project Impact	[Illegible]
Project Stakeholders	[Illegible]
Project Deliverables	[Illegible]
Project Milestones	[Illegible]
Project Risks	[Illegible]
Project Issues	[Illegible]
Project Changes	[Illegible]
Project Communications	[Illegible]
Project Performance	[Illegible]
Project Success	[Illegible]

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	1/18/01
Quarter	1
Constituent	carbon dioxide
MG-1A	1.01
MG-1B	0.41
MG-2A	0.1
MG-2B	0.25
MG-3	0
Office	0
Barometer	
Comment	

Date	1/18/01
Quarter	1
Constituent	methane
MG-1A	0.4
MG-1B	0.35
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	1/18/01
Quarter	1
Constituent	oxygen
MG-1A	19.9
MG-1B	20.1
MG-2A	20.8
MG-2B	20.7
MG-3	20.9
Office	20.9
Barometer	
Comment	

389

County

Hill

Facility & #

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Closure

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GW Monitoring

GW Reports

Inspections

Other:

Landfarm

Liner

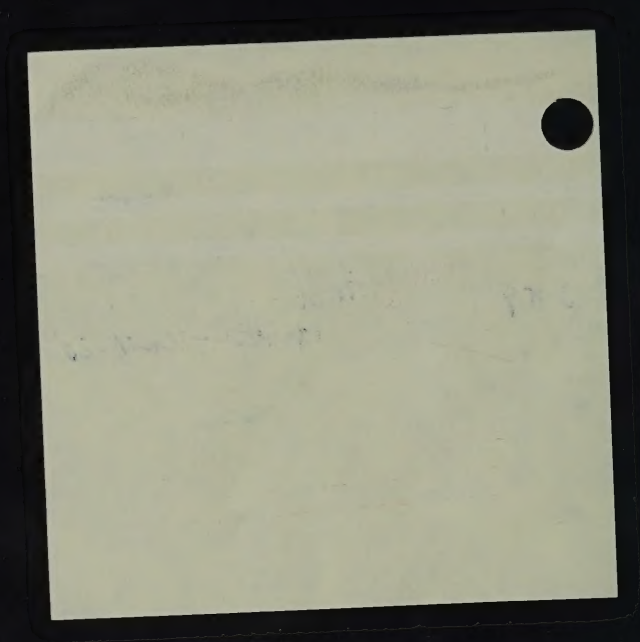
Methane

O & M

Run - On

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DAMSCHEN-ENTRANCO

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SEP 15 2000

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

September 14, 2000

PO BOX 4817

2030 11th AVENUE

SUITE 11

HELENA, MONTANA

59604

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. No exceedences were noted, but low concentrations of methane were observed in well MG-1B. The occurrences do not appear to be long-term events, as the concentrations vary widely over time.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN-ENTRANCO

Bruce L. Siegmund
Senior Hydrogeologist

Enclosures
CC: Clay Vincent, Hill County Sanitarian

ARIZONA

CALIFORNIA

IDAHO

MONTANA

NEW MEXICO

OREGON

UTAH

WASHINGTON

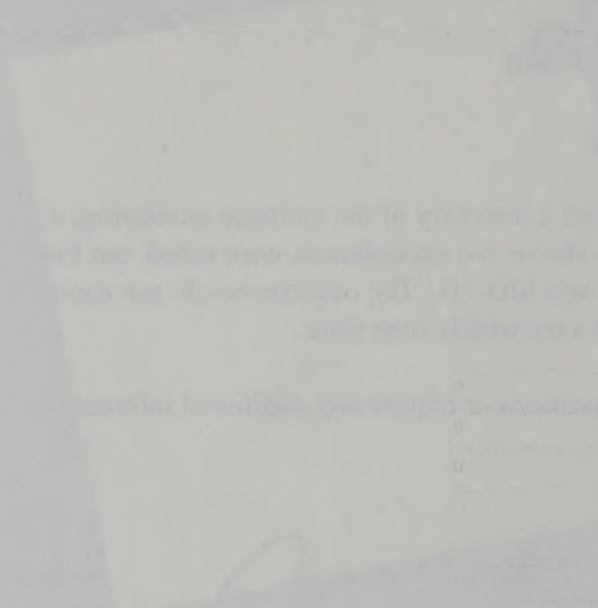


THEORY OF THE EARTH AND ITS HISTORY

CHAPTER I. OF THE ORIGIN OF THE EARTH

1840

1840



THEORY OF THE EARTH AND ITS HISTORY

CHAPTER I. OF THE ORIGIN OF THE EARTH

SECTION I. OF THE ORIGIN OF THE EARTH

1. OF THE ORIGIN OF THE EARTH

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Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	6/13/00
Quarter	2
Constituent	carbon dioxide
MG-1A	0
MG-1B	0.65
MG-2A	0
MG-2B	0
MG-3	0.08
Office	0
Barometer	
Comment	

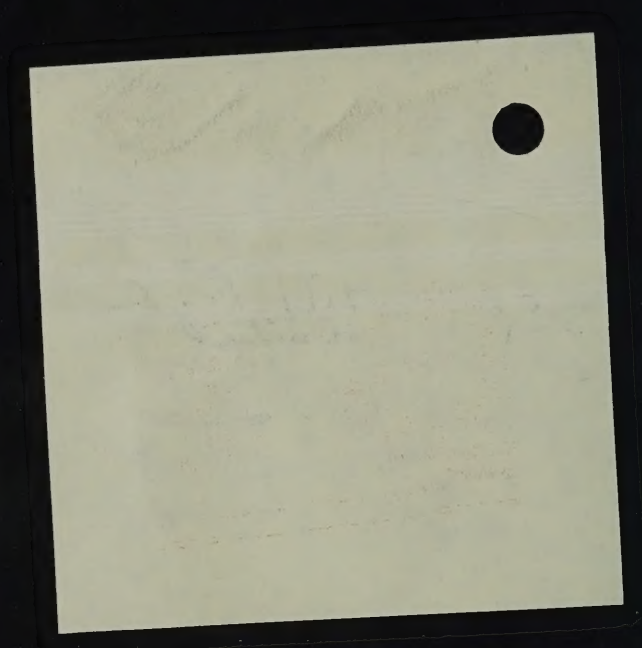
Date	6/13/00
Quarter	2
Constituent	methane
MG-1A	0
MG-1B	1.25
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	6/13/00
Quarter	2
Constituent	oxygen
MG-1A	20.9
MG-1B	20.9
MG-2A	20.9
MG-2B	20.6
MG-3	20.9
Office	20.9
Barometer	
Comment	

1. Name of the person or organization
 2. Address of the person or organization
 3. City, State, and Zip Code

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DAMSCHEN-ENTRANCO

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MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

April 14, 2000

PO BOX 4817

2030 11th AVENUE

SUITE 11

HELENA, MONTANA

59604

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. No exceedences were noted, but low concentrations of methane were observed in well MG-1A, -1B, and -2A. The occurrences do not appear to be long-term events, as the concentrations vary widely over time.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN-ENTRANCO

Bruce L. Siegmund
Senior Hydrogeologist

Enclosures
CC: Clay Vincent, Hill County Sanitarian

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U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C. 20250

Office of Information (101)

101

For information of the Bureau, the following information is being furnished to you for your information. The Bureau is currently conducting a study of the effects of the various factors which may affect the growth of the various crops of the various states. The results of this study will be made available to you as soon as they are available.

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	6/9/99
Quarter	2
Constituent	carbon dioxide
MG-1A	0
MG-1B	0.47
MG-2A	0.06
MG-2B	0.31
MG-3	0.06
Office	0
Barometer	
Comment	

Date	6/9/99
Quarter	2
Constituent	methane
MG-1A	0
MG-1B	1.47
MG-2A	0.03
MG-2B	0.07
MG-3	0
Office	0
Barometer	
Comment	

Date	6/9/99
Quarter	2
Constituent	oxygen
MG-1A	20.9
MG-1B	19
MG-2A	20
MG-2B	19.5
MG-3	20.8
Office	20.9
Barometer	
Comment	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

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Unified Disposal District Landfill Methane Monitoring Report

(results posted in percent of total sample)

Date	8/9/99
Quarter	3
Constituent	carbon dioxide
MG-1A	0
MG-1B	1.35
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	8/9/99
Quarter	3
Constituent	methane
MG-1A	0
MG-1B	0
MG-2A	1.6
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	8/9/99
Quarter	3
Constituent	oxygen
MG-1A	20.9
MG-1B	20.9
MG-2A	18.9
MG-2B	20.9
MG-3	20.9
Office	20.9
Barometer	
Comment	

(Amount shown in dollars and cents)
 (Date of payment)
 (Name of payee)

Date	Amount
10-10-19	100.00
10-11-19	100.00
10-12-19	100.00
10-13-19	100.00
10-14-19	100.00
10-15-19	100.00
10-16-19	100.00
10-17-19	100.00
10-18-19	100.00
10-19-19	100.00
10-20-19	100.00
10-21-19	100.00
10-22-19	100.00
10-23-19	100.00
10-24-19	100.00
10-25-19	100.00
10-26-19	100.00
10-27-19	100.00
10-28-19	100.00
10-29-19	100.00
10-30-19	100.00
10-31-19	100.00

Date	Amount
10-10-19	100.00
10-11-19	100.00
10-12-19	100.00
10-13-19	100.00
10-14-19	100.00
10-15-19	100.00
10-16-19	100.00
10-17-19	100.00
10-18-19	100.00
10-19-19	100.00
10-20-19	100.00
10-21-19	100.00
10-22-19	100.00
10-23-19	100.00
10-24-19	100.00
10-25-19	100.00
10-26-19	100.00
10-27-19	100.00
10-28-19	100.00
10-29-19	100.00
10-30-19	100.00
10-31-19	100.00

Date	Amount
10-10-19	100.00
10-11-19	100.00
10-12-19	100.00
10-13-19	100.00
10-14-19	100.00
10-15-19	100.00
10-16-19	100.00
10-17-19	100.00
10-18-19	100.00
10-19-19	100.00
10-20-19	100.00
10-21-19	100.00
10-22-19	100.00
10-23-19	100.00
10-24-19	100.00
10-25-19	100.00
10-26-19	100.00
10-27-19	100.00
10-28-19	100.00
10-29-19	100.00
10-30-19	100.00
10-31-19	100.00

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	11/5/99
Quarter	4
Constituent	carbon dioxide
MG-1A	0.1
MG-1B	1.3
MG-2A	0.2
MG-2B	0.5
MG-3	0.2
Office	0
Barometer	
Comment	

Date	11/5/99
Quarter	4
Constituent	methane
MG-1A	0
MG-1B	2.7
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	11/5/99
Quarter	4
Constituent	oxygen
MG-1A	20.9
MG-1B	18.4
MG-2A	20.8
MG-2B	20.5
MG-3	20.5
Office	20.9
Barometer	
Comment	

Final Report: Project 1 - Data Analysis

Submitted by: [Name]

1.0	Introduction
1.1	Background
1.2	Objectives
1.3	Scope
1.4	Methodology
1.5	Results
1.6	Conclusion
1.7	References
1.8	Appendix
1.9	Glossary
1.10	Index
2.0	Summary
2.1	Key Findings
2.2	Recommendations
2.3	Future Work
2.4	Conclusion
2.5	References
2.6	Appendix
2.7	Glossary
2.8	Index
2.9	Summary
2.10	Key Findings
2.11	Recommendations
2.12	Future Work
2.13	Conclusion
2.14	References
2.15	Appendix
2.16	Glossary
2.17	Index
2.18	Summary
2.19	Key Findings
2.20	Recommendations
2.21	Future Work
2.22	Conclusion
2.23	References
2.24	Appendix
2.25	Glossary
2.26	Index
2.27	Summary
2.28	Key Findings
2.29	Recommendations
2.30	Future Work
2.31	Conclusion
2.32	References
2.33	Appendix
2.34	Glossary
2.35	Index
2.36	Summary
2.37	Key Findings
2.38	Recommendations
2.39	Future Work
2.40	Conclusion
2.41	References
2.42	Appendix
2.43	Glossary
2.44	Index
2.45	Summary
2.46	Key Findings
2.47	Recommendations
2.48	Future Work
2.49	Conclusion
2.50	References
2.51	Appendix
2.52	Glossary
2.53	Index
2.54	Summary
2.55	Key Findings
2.56	Recommendations
2.57	Future Work
2.58	Conclusion
2.59	References
2.60	Appendix
2.61	Glossary
2.62	Index
2.63	Summary
2.64	Key Findings
2.65	Recommendations
2.66	Future Work
2.67	Conclusion
2.68	References
2.69	Appendix
2.70	Glossary
2.71	Index
2.72	Summary
2.73	Key Findings
2.74	Recommendations
2.75	Future Work
2.76	Conclusion
2.77	References
2.78	Appendix
2.79	Glossary
2.80	Index
2.81	Summary
2.82	Key Findings
2.83	Recommendations
2.84	Future Work
2.85	Conclusion
2.86	References
2.87	Appendix
2.88	Glossary
2.89	Index
2.90	Summary
2.91	Key Findings
2.92	Recommendations
2.93	Future Work
2.94	Conclusion
2.95	References
2.96	Appendix
2.97	Glossary
2.98	Index
2.99	Summary
3.0	Final Report

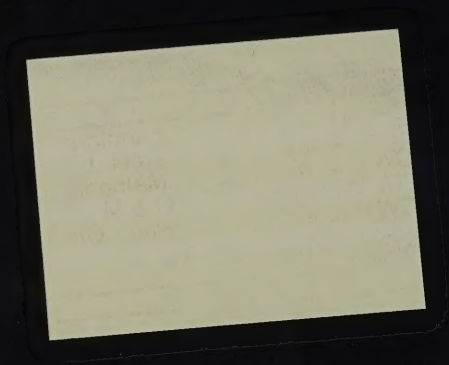
Unified Disposal District Landfill Metthane Monitoring Report
(results posted in percent of total sample)

Date	1/25/00
Quarter	1
Constituent	carbon dioxide
MG-1A	0.92
MG-1B	0.4
MG-2A	0.02
MG-2B	0.08
MG-3	0
Office	0
Barometer	
Comment	

Date	1/25/00
Quarter	1
Constituent	methane
MG-1A	0.28
MG-1B	1.06
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	1/25/00
Quarter	1
Constituent	oxygen
MG-1A	18.5
MG-1B	19.6
MG-2A	20.8
MG-2B	20.8
MG-3	20.9
Office	20.9
Barometer	
Comment	

County	Hill
Facility & #	Unifac 389
Closure	Landfarm
Finan Assur	Liner
GW Corr Meas	Methane
GW Monitoring	O & M
GW Reports	Run - On
Inspections	
Other:	





DAMSCHEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604
TELEPHONE (406) 449-8627
FAX (406) 449-8631

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MAY 24 1999

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

May 21, 1999

F. Patrick Crowley
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find a summary of the methane monitoring at the Unified Disposal District landfill in Havre. No exceedences were noted.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN & ASSOCIATES

Bruce L. Siegmund
Project Hydrogeologist

Enclosures
CC: Clay Vincent, Hill County Sanitarian

NOTICE
OF
COURT
(5)

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	6/9/98
Quarter	2
Constituent	carbon dioxide
MG-1A	2.6
MG-1B	0.6
MG-2A	0.21
MG-2B	0.45
MG-3	0.13
Office	0
Barometer	
Comment	

Date	6/9/98
Quarter	2
Constituent	methane
MG-1A	0
MG-1B	0
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	6/9/98
Quarter	2
Constituent	oxygen
MG-1A	20.7
MG-1B	20.2
MG-2A	20.7
MG-2B	20.6
MG-3	20.9
Office	20.9
Barometer	
Comment	

THE STATE OF NEW YORK

IN SENATE

JANUARY 18, 1901

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

FOR THE YEAR 1900

ALBANY:

1901

PRINTED BY THE

UNIVERSITY OF THE STATE OF NEW YORK

PRINTING OFFICE

ALBANY

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Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	7/10/98
Quarter	3
Constituent	carbon dioxide
MG-1A	0.21
MG-1B	0
MG-2A	0
MG-2B	0.25
MG-3	0.02
Office	0
Barometer	
Comment	

Date	7/10/98
Quarter	3
Constituent	methane
MG-1A	0
MG-1B	0
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	7/10/98
Quarter	3
Constituent	oxygen
MG-1A	20
MG-1B	20.9
MG-2A	20.9
MG-2B	19.4
MG-3	20.8
Office	20.9
Barometer	
Comment	

Unified Disposal District Landfill Metthane Monitoring Report

(results posted in percent of total sample)

Date	10/15/98
Quarter	4
Constituent	carbon dioxide
MG-1A	0.93
MG-1B	0.57
MG-2A	0.13
MG-2B	0.53
MG-3	0.12
Office	0
Barometer	
Comment	

Date	10/15/98
Quarter	4
Constituent	methane
MG-1A	0
MG-1B	0.36
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	10/15/98
Quarter	4
Constituent	oxygen
MG-1A	19.9
MG-1B	19.8
MG-2A	20.7
MG-2B	20.5
MG-3	20.9
Office	20.9
Barometer	
Comment	

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

1	10/1/00	10/1/00	10/1/00
2	10/1/00	10/1/00	10/1/00
3	10/1/00	10/1/00	10/1/00
4	10/1/00	10/1/00	10/1/00
5	10/1/00	10/1/00	10/1/00
6	10/1/00	10/1/00	10/1/00
7	10/1/00	10/1/00	10/1/00
8	10/1/00	10/1/00	10/1/00
9	10/1/00	10/1/00	10/1/00
10	10/1/00	10/1/00	10/1/00
11	10/1/00	10/1/00	10/1/00
12	10/1/00	10/1/00	10/1/00
13	10/1/00	10/1/00	10/1/00
14	10/1/00	10/1/00	10/1/00
15	10/1/00	10/1/00	10/1/00
16	10/1/00	10/1/00	10/1/00
17	10/1/00	10/1/00	10/1/00
18	10/1/00	10/1/00	10/1/00
19	10/1/00	10/1/00	10/1/00
20	10/1/00	10/1/00	10/1/00
21	10/1/00	10/1/00	10/1/00
22	10/1/00	10/1/00	10/1/00
23	10/1/00	10/1/00	10/1/00
24	10/1/00	10/1/00	10/1/00
25	10/1/00	10/1/00	10/1/00
26	10/1/00	10/1/00	10/1/00
27	10/1/00	10/1/00	10/1/00
28	10/1/00	10/1/00	10/1/00
29	10/1/00	10/1/00	10/1/00
30	10/1/00	10/1/00	10/1/00
31	10/1/00	10/1/00	10/1/00
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33	10/1/00	10/1/00	10/1/00
34	10/1/00	10/1/00	10/1/00
35	10/1/00	10/1/00	10/1/00
36	10/1/00	10/1/00	10/1/00
37	10/1/00	10/1/00	10/1/00
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39	10/1/00	10/1/00	10/1/00
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41	10/1/00	10/1/00	10/1/00
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44	10/1/00	10/1/00	10/1/00
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61	10/1/00	10/1/00	10/1/00
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72	10/1/00	10/1/00	10/1/00
73	10/1/00	10/1/00	10/1/00
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80	10/1/00	10/1/00	10/1/00
81	10/1/00	10/1/00	10/1/00
82	10/1/00	10/1/00	10/1/00
83	10/1/00	10/1/00	10/1/00
84	10/1/00	10/1/00	10/1/00
85	10/1/00	10/1/00	10/1/00
86	10/1/00	10/1/00	10/1/00
87	10/1/00	10/1/00	10/1/00
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90	10/1/00	10/1/00	10/1/00
91	10/1/00	10/1/00	10/1/00
92	10/1/00	10/1/00	10/1/00
93	10/1/00	10/1/00	10/1/00
94	10/1/00	10/1/00	10/1/00
95	10/1/00	10/1/00	10/1/00
96	10/1/00	10/1/00	10/1/00
97	10/1/00	10/1/00	10/1/00
98	10/1/00	10/1/00	10/1/00
99	10/1/00	10/1/00	10/1/00
100	10/1/00	10/1/00	10/1/00

Unified Disposal District Landfill Methane Monitoring Report

(results posted in percent of total sample)

Date	1/26/99
Quarter	1
Constituent	carbon dioxide
MG-1A	4.83
MG-1B	0.99
MG-2A	0.38
MG-2B	0.19
MG-3	0.05
Office	0.11
Barometer	
Comment	

Date	1/26/99
Quarter	1
Constituent	methane
MG-1A	0.9
MG-1B	1.03
MG-2A	0.06
MG-2B	0.03
MG-3	0
Office	0
Barometer	
Comment	

Date	1/26/99
Quarter	1
Constituent	oxygen
MG-1A	15.5
MG-1B	19.8
MG-2A	20.6
MG-2B	20.8
MG-3	20.8
Office	20.9
Barometer	
Comment	



DAMSCHE & ASSOCIATES, INC.
CONSULTING ENGINEERS

2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

Unified I.F. #389
Methane
Hill Co.

April 15, 1998

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APR 17 1998
MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

F. Patrick Crowley
DEQ Solid Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find the results of the most recent methane monitoring at the Unified Disposal District landfill east of Havre, Montana. The very low methane and relatively normal carbon dioxide and oxygen readings do not support the presence of significant quantities of landfill gas in the area of this sampling point.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHE & ASSOCIATES, INC.

Bruce L. Siegmund
Project Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian

Unified Disposal District Landfill Metthane Monitoring Report

Date	9/30/97
Quarter	3
Constituent	carbon dioxide
MG-1A	0.45
MG-1B	0.33
MG-2A	0.13
MG-2B	0.15
MG-3	0.01
Office	0
Barometer	
Comment	

Date	9/30/97
Quarter	3
Constituent	methane
MG-1A	0
MG-1B	0.04
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	9/30/97
Quarter	3
Constituent	oxygen
MG-1A	20.3
MG-1B	19.9
MG-2A	20.5
MG-2B	20.5
MG-3	20.9
Office	20.9
Barometer	
Comment	

Unified Disposal District Landfill Metthane Monitoring Report

Date	10/23/97
Quarter	4
Constituent	carbon dioxide
MG-1A	0.25
MG-1B	0.49
MG-2A	0.05
MG-2B	0.33
MG-3	0
Office	0
Barometer	
Comment	

Date	10/23/97
Quarter	4
Constituent	methane
MG-1A	0
MG-1B	0
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	10/23/97
Quarter	4
Constituent	oxygen
MG-1A	20.8
MG-1B	20.8
MG-2A	20.9
MG-2B	20.7
MG-3	20.5
Office	20.9
Barometer	
Comment	

Table 1. Summary of the results of the analysis of variance for the different factors.

Factor	Sum of Squares	Mean Square	F	Prob > F
Block	1.00	1.00	1.00	0.32
Genotype	1.00	1.00	1.00	0.32
Environment	1.00	1.00	1.00	0.32
Genotype x Environment	1.00	1.00	1.00	0.32
Genotype x Block	1.00	1.00	1.00	0.32
Environment x Block	1.00	1.00	1.00	0.32
Genotype x Environment x Block	1.00	1.00	1.00	0.32
Residual	1.00	1.00	1.00	0.32
Total	1.00	1.00	1.00	0.32

Unified Disposal District Landfill Metthane Monitoring Report

Date	3/24/98
Quarter	1
Constituent	carbon dioxide
MG-1A	1.11
MG-1B	0.48
MG-2A	0.04
MG-2B	0.04
MG-3	0
Office	0.1
Barometer	
Comment	

Date	3/24/98
Quarter	1
Constituent	methane
MG-1A	0
MG-1B	0.15
MG-2A	0
MG-2B	0
MG-3	0
Office	0
Barometer	
Comment	

Date	3/24/98
Quarter	1
Constituent	oxygen
MG-1A	19.2
MG-1B	20.1
MG-2A	20.8
MG-2B	20.7
MG-3	20.9
Office	20.9
Barometer	
Comment	

County Hill
Facility & # Unifuel # 389
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run - On
Inspections
Other: _____

County
Facility & #
Closure
Final Asses
GW Cont. Man
GW Monitoring
GW Reports
Inspections
Other
Run - On
O & M
Methane
Liner
Landfill



2-3

DAMSCHE & ASSOCIATES, INC.
CONSULTING ENGINEERS

2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

May 2, 1997

RECEIVED

MAY 05 1997

F. Patrick Crowley
DEQ Solid Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

Dear Mr. Crowley:

Enclosed please find the results of the first quarter, 1997 methane monitoring at the Unified Disposal District landfill east of Havre, Montana. A methane value of 0.05 percent of the total sample (0.25 percent of the lower explosive limit) was detected in monitoring well MG-1B. This is a very low value and falls within the range of error of the instrument. The relatively normal carbon dioxide and oxygen readings do not support the presence of landfill gas in the area of this sampling point.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHE & ASSOCIATES, INC.

Bruce L. Siegmund
Project Hydrogeologist

CC: Clay Vincent, Hill County Sanitarian

5/02/97

Unified Methane Monitoring

Page 11

Date: 3/03/97
Year: 1997
Quarter: 1
Constituent: carbon dioxide
MG-1A: .05
MG-1B: .44
MG-2A: .05
MG-2B: .02
MG-3: 0.00
Office: 0.00
Barometer:
Comment: windy

Date: 3/03/97
Year: 1997
Quarter: 1
Constituent: methane
MG-1A: 0.00
MG-1B: .05
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 3/03/97
Year: 1997
Quarter: 1
Constituent: oxygen
MG-1A: 20.00
MG-1B: 20.50
MG-2A: 20.80
MG-2B: 20.90
MG-3: 20.90
Office: 20.80
Barometer:
Comment:

1947 12/15/47

1947 12/15/47

1947 12/15/47

1947 12/15/47

1947 12/15/47

1947 12/15/47

1947 12/15/47

1947 12/15/47

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1947 12/15/47

1947 12/15/47



DAMSCHEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

*Hill Co.
Methane
Unified I.F. # 38*

2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

February 20, 1997

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FEB 21 1997

F. Patrick Crowley
DEQ Solid Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

MONTANA
DEPT. OF ENVIRONMENTAL QUALITY
COMMUNITY SERVICES BUREAU

Dear Mr. Crowley:

Enclosed please find the results of the most recent landfill gas monitoring at the Unified Disposal District landfill east of Havre, Montana. You will note that very low concentrations of methane have been detected sporadically in well MG-1. The reported values fall well below the lower explosive limit of five percent methane.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN & ASSOCIATES, INC.

Bruce L. Siegmund
Project Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian

Date: 8/26/96
Year: 1996
Quarter: 3
Constituent: carbon dioxide
MG-1A: 1.09
MG-1B: .40
MG-2A: .21
MG-2B: .08
MG-3: 0.00
Office: .05
Barometer:
Comment:

Date: 8/26/96
Year: 1996
Quarter: 3
Constituent: methane
MG-1A: .15
MG-1B: .29
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: .04
Barometer:
Comment:

Date: 8/26/96
Year: 1996
Quarter: 3
Constituent: oxygen
MG-1A: 19.50
MG-1B: 20.10
MG-2A: 20.80
MG-2B: 20.90
MG-3: 20.90
Office: 20.90
Barometer:
Comment:

Date: 10/04/96
Year: 1996
Quarter: 4
Constituent: carbon dioxide
MG-1A: 1.53
MG-1B: .45
MG-2A: .57
MG-2B: .61
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 10/04/96
Year: 1996
Quarter: 4
Constituent: methane
MG-1A: .17
MG-1B: .09
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 10/04/96
Year: 1996
Quarter: 4
Constituent: oxygen
MG-1A: 19.40
MG-1B: 19.50
MG-2A: 20.40
MG-2B: 20.00
MG-3: 20.50
Office: 20.90
Barometer:
Comment:



DAMSCHEN & ASSOCIATES, INC.

CONSULTING ENGINEERS

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P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

July 3, 1996

RECEIVED

JUL 05 1996
Montana Department of
Environmental Quality
Waste Management Division

F. Patrick Crowley
DEQ Solid Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

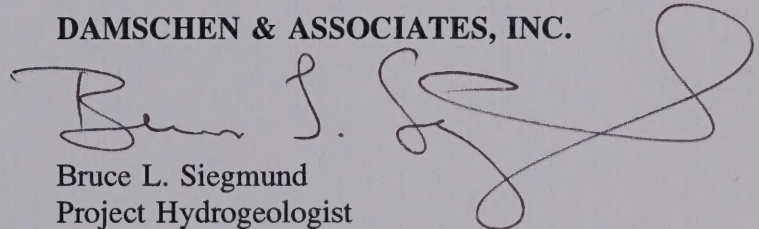
Dear Mr. Crowley:

Enclosed please find the results of the latest methane monitoring at the Unified Disposal District landfill in Havre, Montana. You will note that low concentrations of methane have been detected sporadically in wells at the facility. The concentrations measured to date are very low and not a matter of serious concern.

We will continue to monitor the facility as required by current State regulations. If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN & ASSOCIATES, INC.



Bruce L. Siegmund
Project Hydrogeologist

Enclosures

CC: Clay Vincent, Hill County Sanitarian

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LABORATORY IS ASSOCIATES, INC.

1000 W. 10TH AVENUE

CHICAGO, ILL. 60607

TELEPHONE 312-467-1000

CABLE 312-467-1000

TELETYPE 312-467-1000

FAX 312-467-1000

MAIL ROOM 312-467-1000

RECORDS 312-467-1000

GENERAL 312-467-1000

SALES 312-467-1000

MARKETING 312-467-1000

FINANCE 312-467-1000

ADMINISTRATION 312-467-1000

LEGAL 312-467-1000

COMPUTER 312-467-1000

RESEARCH 312-467-1000

DEVELOPMENT 312-467-1000

PRODUCTION 312-467-1000

DISTRIBUTION 312-467-1000

SUPPORT 312-467-1000

TRAINING 312-467-1000

QUALITY 312-467-1000

ENVIRONMENT 312-467-1000

SAFETY 312-467-1000

SECURITY 312-467-1000

7/01/96

Unified Methane Monitoring

Page 7

Date: 3/02/96

Year: 1996

Quarter: 1

Constituent: carbon dioxide

MG-1A: .05

MG-1B: .10

MG-2A: .25

MG-2B: .05

MG-3: 0.00

Office: 0.00

Barometer:

Comment:

Date: 3/02/96

Year: 1996

Quarter: 1

Constituent: methane

MG-1A: 0.00

MG-1B: .05

MG-2A: 0.00

MG-2B: .05

MG-3: 0.00

Office: 0.00

Barometer:

Comment:

Date: 3/02/96

Year: 1996

Quarter: 1

Constituent: oxygen

MG-1A: 20.80

MG-1B: 20.60

MG-2A: 19.90

MG-2B: 20.80

MG-3: 20.90

Office: 20.80

Barometer:

Comment:

Date: 10/1/88

Year: 1988

Quarter: 1

Contract: 1000000000

MO-1A: 10

MO-1B: 10

MO-1C: 10

MO-1D: 10

MO-1E: 10

MO-1F: 10

MO-1G: 10

MO-1H: 10

Date: 10/1/88

Year: 1988

Quarter: 1

Contract: 1000000000

MO-1A: 10

MO-1B: 10

MO-1C: 10

MO-1D: 10

MO-1E: 10

MO-1F: 10

MO-1G: 10

MO-1H: 10

Date: 10/1/88

Year: 1988

Quarter: 1

Contract: 1000000000

MO-1A: 10

MO-1B: 10

MO-1C: 10

MO-1D: 10

MO-1E: 10

MO-1F: 10

MO-1G: 10

MO-1H: 10

7/01/96

Unified Methane Monitoring

Page 8

Date: 5/16/96

Year: 1996

Quarter: 2

Constituent: carbon dioxide

MG-1A: .01

MG-1B: .17

MG-2A: 1.52

MG-2B: .33

MG-3: .05

Office: 0.00

Barometer:

Comment:

Date: 5/16/96

Year: 1996

Quarter: 2

Constituent: methane

MG-1A: 0.00

MG-1B: .13

MG-2A: 0.00

MG-2B: 0.00

MG-3: 0.00

Office: 0.00

Barometer:

Comment:

Date: 5/16/96

Year: 1996

Quarter: 2

Constituent: oxygen

MG-1A: 20.80

MG-1B: 20.60

MG-2A: 19.10

MG-2B: 20.60

MG-3: 20.80

Office: 20.90

Barometer:

Comment:

Date: 5/15/82
Year: 1982
Quarter: 2
Contaminant: carbon dioxide
MG-1A: 0.1
MG-1B: 1.7
MG-2A: 1.32
MG-2B: 3.1
MG-3: 0.5
Officer: 0.0
Barometer:
Comment:

Date: 5/16/82
Year: 1982
Quarter: 2
Contaminant: methane
MG-1A: 0.0
MG-1B: 1.3
MG-2A: 0.0
MG-2B: 0.0
MG-3: 0.0
Officer: 0.0
Barometer:
Comment:

Date: 5/17/82
Year: 1982
Quarter: 2
Contaminant: oxygen
MG-1A: 20.80
MG-1B: 20.80
MG-2A: 19.10
MG-2B: 20.50
MG-3: 20.80
Officer: 20.50
Barometer:
Comment:



DAMSCHEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

*Unified
Methane
Hill*
2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

January 3, 1996

F. Patrick Crowley
DEQ Solid Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

Dear Mr. Crowley:

Enclosed please find the results of the fourth quarter, 1995 methane monitoring results from the Unified Disposal District landfill east of Havre, Montana. Small concentrations of methane were detected in monitoring wells MG-1A and -1B. The values reported were, respectively, 0.10 percent, or two percent of the lower explosive limit, and 0.20 percent, or four percent of the lower explosive limit.

None of the other wells or structures contained any methane or significant quantities of carbon dioxide.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Bruce L. Siegmund', with a large, stylized flourish at the end.

Bruce L. Siegmund
Project Hydrogeologist

CC: Clay Vincent, Hill County Sanitarian

1/03/96

Unified Methane Monitoring

Page 1

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Carbon dioxide
MG-1A: .12
MG-1B: .12
MG-2A: .44
MG-2B: .88
MG-3: .04
Office: 0.00
Barometer:
Comment:

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Oxygen
MG-1A: 20.60
MG-1B: 20.70
MG-2A: 19.80
MG-2B: 20.30
MG-3: 20.90
Office: 20.90
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Carbon Dioxide
MG-1A: 0.00
MG-1B: .03
MG-2A: .01
MG-2B: .08
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Oxygen
MG-1A: 20.90
MG-1B: 20.80
MG-2A: 20.60
MG-2B: 20.80
MG-3: 20.60
Office: 20.90
Barometer:
Comment:

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Carbon Dioxide
MG-1A: .01
MG-1B: .13
MG-2A: .01
MG-2B: .01
MG-3: .01
Office: .01
Barometer:
Comment:

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Methane
MG-1A: 0.00
MG-1B: .01
MG-2A: .01
MG-2B: .01
MG-3: .01
Office: .01
Barometer:
Comment:

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Oxygen
MG-1A: 20.90
MG-1B: 20.80
MG-2A: 20.80
MG-2B: 20.80
MG-3: 20.80
Office: 20.90
Barometer:
Comment:

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: carbon dioxide
MG-1A: .05
MG-1B: .05
MG-2A: .98
MG-2B: .21
MG-3: .05
Office: .08
Barometer:
Comment:

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: oxygen
MG-1A: 20.70
MG-1B: 20.70
MG-2A: 19.50
MG-2B: 20.10
MG-3: 19.80
Office: 20.80
Barometer:
Comment:

Area: 6/12/92
Year: 1992
Quarter: 3
Constituent: carbon dioxide
G-1A: 0.02
G-1B: 0.02
G-2A: 0.02
G-2B: 0.02
G-3: 0.02
Office: 0.08
Director:
Comment:

Area: 6/12/92
Year: 1992
Quarter: 3
Constituent: methane
G-1A: 0.00
G-1B: 0.00
G-2A: 0.00
G-2B: 0.00
G-3: 0.00
Office: 0.00
Director:
Comment:

Area: 6/12/92
Year: 1992
Quarter: 3
Constituent: oxygen
G-1A: 10.70
G-1B: 20.70
G-2A: 19.50
G-2B: 20.10
G-3: 19.80
Office: 20.80
Director:
Comment:

Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: carbon dioxide
MG-1A: 0.00
MG-1B: .13
MG-2A: .01
MG-2B: .05
MG-3: .02
Office: 0.00
Barometer:
Comment:

Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: oxygen
MG-1A: 20.90
MG-1B: 20.60
MG-2A: 20.90
MG-2B: 20.80
MG-3: 20.60
Office: 20.90
Barometer:
Comment:

Date: 11/17/95
Year: 1995
Quarter: 4
Constituent: carbon dioxide
MG-1A: 3.50
MG-1B: 1.00
MG-2A: 2.00
MG-2B: .80
MG-3: .20
Office: 0.00
Barometer:
Comment:

Date: 11/17/95
Year: 1995
Quarter: 4
Constituent: methane
MG-1A: .10
MG-1B: .20
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 11/17/95
Year: 1995
Quarter: 4
Constituent: oxygen
MG-1A: 16.70
MG-1B: 19.30
MG-2A: 18.50
MG-2B: 20.40
MG-3: 20.70
Office: 20.80
Barometer:
Comment:

Area: 11/17/92
 Date: 1992
 Station: 4
 Constituent: Carbon dioxide
 6-1A: 2.50
 6-1B: 1.00
 6-2A: 1.00
 6-2B: 1.00
 6-3: 1.00
 Elapsed: 0.00
 Altimeter:
 Comment:

Area: 11/17/92
 Date: 1992
 Station: 4
 Constituent: Methane
 6-1A: 1.0
 6-1B: 1.0
 6-2A: 0.00
 6-2B: 0.00
 6-3: 0.00
 Elapsed: 0.00
 Altimeter:
 Comment:

Area: 11/17/92
 Date: 1992
 Station: 4
 Constituent: Oxygen
 6-1A: 16.70
 6-1B: 16.30
 6-2A: 16.50
 6-2B: 16.50
 6-3: 16.70
 Elapsed: 10.00
 Altimeter:
 Comment:



DAMSCHEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

2030 11TH AVENUE • SUITE 11
P.O. BOX 4817 • HELENA, MT 59604

TELEPHONE (406) 449-8627
FAX (406) 449-8631

*File: Havre I.P.
Methane*

August 28, 1995

Mr. F. Patrick Crowley
MDEQ Waste Management Division
P.O. Box 200901
Helena, MT 59620-0901

RECEIVED

AUG 29 1995

Montana Department of
Environmental Quality
Waste Management Division

Dear Mr. Crowley:

Enclosed please find the results of the most recent methane monitoring tests at the Unified Disposal District landfill east of Havre, Montana. No explosive gases have been detected at the facility to date. If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,

DAMSCHEN & ASSOCIATES, INC.

Bruce L. Siegmund
Project Hydrogeologist

Enclosures

CC: Clay Vincent, Unified Disposal District

8/28/95

Unified Methane Monitoring

Page 1

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Carbon dioxide
MG-1A: .12
MG-1B: .12
MG-2A: .44
MG-2B: .88
MG-3: .04
Office: 0.00
Barometer:
Comment:

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 9/19/94
Year: 1994
Quarter: 3
Constituent: Oxygen
MG-1A: 20.60
MG-1B: 20.70
MG-2A: 19.80
MG-2B: 20.30
MG-3: 20.90
Office: 20.90
Barometer:
Comment:

Area: 8/23/92

Ref: 1992

Author:

Organization: United Nations

7-1A: 12.50

7-1B: 12.50

7-1C: 12.50

7-1D: 12.50

7-1E: 12.50

7-1F: 12.50

7-1G: 12.50

7-1H: 12.50

7-1I: 12.50

7-1J: 12.50

7-1K: 12.50

7-1L: 12.50

7-1M: 12.50

7-1N: 12.50

7-1O: 12.50

7-1P: 12.50

7-1Q: 12.50

7-1R: 12.50

7-1S: 12.50

7-1T: 12.50

7-1U: 12.50

7-1V: 12.50

7-1W: 12.50

7-1X: 12.50

7-1Y: 12.50

7-1Z: 12.50

7-1AA: 12.50

7-1AB: 12.50

7-1AC: 12.50

7-1AD: 12.50

7-1AE: 12.50

7-1AF: 12.50

7-1AG: 12.50

7-1AH: 12.50

7-1AI: 12.50

7-1AJ: 12.50

7-1AK: 12.50

7-1AL: 12.50

7-1AM: 12.50

7-1AN: 12.50

7-1AO: 12.50

7-1AP: 12.50

7-1AQ: 12.50

7-1AR: 12.50

7-1AS: 12.50

7-1AT: 12.50

7-1AU: 12.50

7-1AV: 12.50

7-1AW: 12.50

7-1AX: 12.50

7-1AY: 12.50

7-1AZ: 12.50

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Carbon Dioxide
MG-1A: 0.00
MG-1B: .03
MG-2A: .01
MG-2B: .08
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Oxygen
MG-1A: 20.90
MG-1B: 20.80
MG-2A: 20.60
MG-2B: 20.80
MG-3: 20.60
Office: 20.90
Barometer:
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Carbon Dioxide
03-1A: 0.00
03-1B: 0.03
03-1A: 0.01
03-2B: 0.08
03-3: 0.00
03-4: 0.00
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Methane
03-1A: 0.00
03-1B: 0.00
03-1A: 0.00
03-2B: 0.00
03-3: 0.00
03-4: 0.00
Comment:

Date: 11/03/94
Year: 1994
Quarter: 4
Constituent: Oxygen
03-1A: 20.90
03-1B: 20.90
03-1A: 20.90
03-2B: 20.90
03-3: 20.90
03-4: 20.90
Comment:

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Unified Methane Monitoring

Page 3

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Carbon Dioxide
MG-1A: .01
MG-1B: .13
MG-2A: .01
MG-2B: .01
MG-3: .01
Office: .01
Barometer:
Comment:

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Methane
MG-1A: 0.00
MG-1B: .01
MG-2A: .01
MG-2B: .01
MG-3: .01
Office: .01
Barometer:
Comment:

Date: 3/13/95
Year: 1995
Quarter: 1
Constituent: Oxygen
MG-1A: 20.90
MG-1B: 20.80
MG-2A: 20.80
MG-2B: 20.80
MG-3: 20.80
Office: 20.90
Barometer:
Comment:

Date: 8/28/92
 Year: 1992
 Quarter: 1
 Concentration: Carbon Dioxide
 MG-1A: .01
 MG-1B: .13
 MG-2A: .01
 MG-2B: .01
 MG-3: .01
 Office: .01
 Parameter:
 Comment:

Date: 8/28/92
 Year: 1992
 Quarter: 1
 Concentration: Methane
 MG-1A: 0.00
 MG-1B: .01
 MG-2A: .01
 MG-2B: .01
 MG-3: .01
 Office: .01
 Parameter:
 Comment:

Date: 8/28/92
 Year: 1992
 Quarter: 1
 Concentration: Oxygen
 MG-1A: 20.20
 MG-1B: 20.80
 MG-2A: 20.80
 MG-2B: 20.80
 MG-3: 20.80
 Office: 20.90
 Parameter:
 Comment:

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Unified Methane Monitoring

Page 4

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: carbon dioxide
MG-1A: .05
MG-1B: .05
MG-2A: .98
MG-2B: .21
MG-3: .05
Office: .08
Barometer:
Comment:

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 6/15/95
Year: 1995
Quarter: 2
Constituent: oxygen
MG-1A: 20.70
MG-1B: 20.70
MG-2A: 19.50
MG-2B: 20.10
MG-3: 19.80
Office: 20.80
Barometer:
Comment:

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Unified Methane Monitoring

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Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: carbon dioxide
MG-1A: 0.00
MG-1B: .13
MG-2A: .01
MG-2B: .05
MG-3: .02
Office: 0.00
Barometer:
Comment:

Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: methane
MG-1A: 0.00
MG-1B: 0.00
MG-2A: 0.00
MG-2B: 0.00
MG-3: 0.00
Office: 0.00
Barometer:
Comment:

Date: 7/21/95
Year: 1995
Quarter: 3
Constituent: oxygen
MG-1A: 20.90
MG-1B: 20.60
MG-2A: 20.90
MG-2B: 20.80
MG-3: 20.60
Office: 20.90
Barometer:
Comment:

Date: 7/21/92

Year: 1992

Quarter: 3

Consignment: Carbon dioxide

WG-1A: 0.00

WG-1B: 1.12

WG-1C: 0.00

WG-1D: 0.00

WG-1E: 0.00

WG-1F: 0.00

Office: 0.00

Barometer:

Comment:

Date: 7/21/92

Year: 1992

Quarter: 3

Consignment: Machine

WG-1A: 0.00

WG-1B: 0.00

WG-1C: 0.00

WG-1D: 0.00

WG-1E: 0.00

Office: 0.00

Barometer:

Comment:

Date: 7/21/92

Year: 1992

Quarter: 3

Consignment: Toyon

WG-1A: 20.00

WG-1B: 20.00

WG-1C: 20.00

WG-1D: 20.00

WG-1E: 20.00

Office: 20.00

Barometer:

Comment: